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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7471	17331	27537	12.23	1.0E-123	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabefia2) mRNA, complete cds
8958	18765	29057	5	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
8958	18765	29058	5	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
268	10233	20048	1.1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
268	10233	20049	1.1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
273	10239		1.98	1.0E-124	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
477	10421	20238	2.11	1.0E-124	AL463246.2	NT	Homo sapiens chromosome 21 segment HS21C046
676	10609	20429	2.03	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG [RETROVIRAL ELEMENT];
676	10609	20430	2.03	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG [RETROVIRAL ELEMENT];
742	10673	20509	3.67	1.0E-124	AF155654.1	NT	Human putative ribosomal protein S1 mRNA
791	10720	20561	1.06	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
886	10812	20660	1.81	1.0E-124	7705446	NT	Homo sapiens hypothetical protein (HSPC068), mRNA
1293	11200	21056	2.59	1.0E-124	11419092	NT	Homo sapiens ring finger protein (RNF), mRNA
1324	11231	21086	5.54	1.0E-124	AF274992.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1324	11231	21087	5.54	1.0E-124	AF274992.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1773	11672	21550	2.35	1.0E-124	AJ131712.1	NT	Homo sapiens mRNA for nucleolar RNA-helicase (noH61 gene)
2016	11907	21797	2.23	1.0E-124	BE879524.1	EST_HUMAN	601491715F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893954 5'
2408	12285	22182	0.85	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
3319	13240	23045	0.85	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3446	13363	23169	0.96	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3446	13363	23170	0.96	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3598	13512	23300	2.95	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)
3825	13737	23528	1.09	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3983	13890	23666	1.19	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4639	14527	24315	1.58	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
4850	14731		1.12	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDII), exon x+1
5039	14911	24685	2.72	1.0E-124	A1204535.1	EST_HUMAN	q56h03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754069 3'
5240	15164	24934	8.97	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5590	15505	25580	6.43	1.0E-124	BF996135.1	EST_HUMAN	602124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6185	16070	26220	3.31	1.0E-124	Y11717.1	NT	M.musculus mRNA for hoxa3 gene
6805	16884	26874	5.66	1.0E-124	4506854	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA

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6930	18808	27002	1.35	1.0E-124	AW612106.1	EST_HUMAN	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:O95162 O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE.;
6930	18808	27003	1.35	1.0E-124	AW612106.1	EST_HUMAN	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:O95162
7466	17326	27532	2.44	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
7466	17326	27533	2.44	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
7542	17393	27604	7.8	1.0E-124	AI767133.1	EST_HUMAN	w193f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
7542	17393	27605	7.8	1.0E-124	AI767133.1	EST_HUMAN	w193f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
7676	17526	27752	1.25	1.0E-124	AW503755.1	EST_HUMAN	UIHF-BN0-akz-b-04-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
8404	18280	28532	2.25	1.0E-124	U94776.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
8645	18509	28788	2.25	1.0E-124	AW665663.1	EST_HUMAN	hj05c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2980906 3'
8767	17916	28162	1.87	1.0E-124	AI446455.1	EST_HUMAN	ij19a03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN.;
8767	17916	28163	1.87	1.0E-124	AI446455.1	EST_HUMAN	ij19a03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN.;
9173	10609	20429	3.98	1.0E-124	AA397551.1	EST_HUMAN	z181b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
9173	10609	20430	3.98	1.0E-124	AA397551.1	EST_HUMAN	z181b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
9846	19626	25005	1.99	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
9846	19626	25006	1.99	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
316	10278		5.41	1.0E-125	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
420	9987	19778	3.92	1.0E-125	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926885 5'
628	10565	20377	1.63	1.0E-125	AI110686.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
628	10565	20378	1.63	1.0E-125	AI110686.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
711	10643	20469	1.24	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
842	10769	20619	2.13	1.0E-125	AA042813.1	EST_HUMAN	zk53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857 cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
982	10905	20750	1.53	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1136	11050	20890	1.63	1.0E-125	7662279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
1649	12700	21414	1.08	1.0E-125	7661867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1769	11688	21545	3.81	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
1769	11688	21546	3.81	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds

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2455	12332	22228	1.15	1.0E-125	AA042813.1	EST_HUMAN	z153c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
2551	12424	22315	1.65	1.0E-125	4504696	NT	gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2551	12424	22316	1.65	1.0E-125	4504696	NT	Homo sapiens inhibitor, alpha (INH4) mRNA
2555	12427	22320	2.45	1.0E-125	AI732966.1	EST_HUMAN	Homo sapiens inhibitor, alpha (INH4) mRNA
4450	14344	24136	1.98	1.0E-125	11425114	NT	oh64d02.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1471779 3'
4450	14344	24137	1.98	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4516	14409	24195	0.84	1.0E-125	BE315412.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5581	15496	25573	1.41	1.0E-125	11436448	NT	607141152F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3140796 5'
5612	15527	25610	3.44	1.0E-125	BE892680.1	EST_HUMAN	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
5965	15870	25993	1.48	1.0E-125	BE562526.1	EST_HUMAN	601439472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918952 5'
5965	15870	25994	1.48	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3688790 5'
6201	15961	26093	6.36	1.0E-125	X03427.1	NT	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3688790 5'
6201	15961	26094	6.36	1.0E-125	X03427.1	NT	Homo sapiens [GF-II] gene, exon 5
6974	16851	27043	1.22	1.0E-125	U90288.1	NT	Homo sapiens [GF-II] gene, exon 5
6974	16851	27044	1.22	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
7272	17149	27343	4.31	1.0E-125	BE181640.1	EST_HUMAN	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
7272	17149	27344	4.31	1.0E-125	BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
8069	17960	28211	3.15	1.0E-125	AF043458.1	NT	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
8152	18040	28289	1.86	1.0E-125	AW131202.1	EST_HUMAN	Homo sapiens HREL gene, exon 5
8152	18040	28290	1.86	1.0E-125	AW131202.1	EST_HUMAN	xf59f02.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2622363 3' similar to TR:Q13284 Q13284
8478	18351	28616	5.13	1.0E-125	AB014567.1	NT	LAMBDA/OTA PROTEIN KINASE C-INTERACTING PROTEIN. [1];
8609	18476	28748	2.92	1.0E-125	7669505	NT	xf59f02.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2622363 3' similar to TR:Q13284 Q13284
8615	18482	28754	5.15	1.0E-125	AF026029.1	NT	LAMBDA/OTA PROTEIN KINASE C-INTERACTING PROTEIN. [1];
8704	18522	28804	2.49	1.0E-125	AW181289.1	EST_HUMAN	Homo sapiens mRNA for KIAA0667 protein, partial cds
8793	18607	28896	4.36	1.0E-125	BE074267.1	EST_HUMAN	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
8793	18607	28897	4.36	1.0E-125	BE074267.1	EST_HUMAN	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
8941	18749	29044	1.96	1.0E-125	AB014567.1	NT	RC3-ST0186-250200-018-c11 ST0186 Homo sapiens cDNA
757	10687	20525	0.88	1.0E-126	4758007	NT	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
760	10690	20528	1.2	1.0E-126	M61936.1	NT	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA

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901	10826	20670	2.03	1.0E-126	X68735.1	NT	H.sapiens gene for alpha1-antichymotrypsin, exon 3
2552	12425	22317	2.24	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3035	12963	22757	6.07	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratiogene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3035	12963	22758	6.07	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratiogene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3577	13491	23281	1.21	1.0E-126	X53941.1	NT	H.sapiens DNA for liver cytochrome b5 pseudogene
3605	13519	23307	2.04	1.0E-126	7657038	NT	H.sapiens death receptor 6 (DR6), mRNA
4677	14563	24356	0.96	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4677	14563	24357	0.96	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4728	14614	24400	1.57	1.0E-126	N34078.1	EST_HUMAN	yK78c06.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:267850 5'
5779	15686	25795	3.68	1.0E-126	AA460075.1	EST_HUMAN	z06e03.r1 Soares_tetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:796444 5' similar to TR.G1145880 G1145880 TITIN ;
5797	15703	25813	3.82	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
5797	15703	25814	3.82	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
6660	16540	26737	2.77	1.0E-126	X16609.1	NT	Human mRNA for ankyrin (variant 2.1)
8233	18114	28366	1.95	1.0E-126	BF683175.1	EST_HUMAN	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 5'
8806	18620	28910	2.41	1.0E-126	BE281680.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
9635	15098	24890	4.38	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
165	10138	19954	3.59	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
165	10138	19955	3.59	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
166	10138	19954	2.31	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
166	10138	19955	2.31	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
272	10238	20056	2.35	1.0E-127	D87675.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
272	10238	20057	2.35	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
863	10789	20640	1.32	1.0E-127	AF114488.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
898	10823	20699	1.28	1.0E-127	U72621.2	NT	Homo sapiens intersectin short isoform (ITSN), complete cds
1665	11567	21433	0.98	1.0E-127	4827053	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
2020	11911	21800	1.59	1.0E-127	5803065	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2020	11911	21801	1.59	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2153	12041	21939	7.45	1.0E-127	4506620	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2294	12176	22075	4.01	1.0E-127	AF245505.1	NT	Homo sapiens ribosomal protein L26 (RPL26) mRNA
2566	12437	22330	2.78	1.0E-127	X12881.1	NT	Homo sapiens adican mRNA, complete cds
2579	12450	22341	0.96	1.0E-127	AA450131.1	EST_HUMAN	Human mRNA for cytokeratin 18
							z042a02.r1 Soares_tetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'

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2579	12450	22342	0.96	1.0E-127	AA450131.1	EST_HUMAN	z42a02.r1 Soares_totat_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
3740	13652	23435	0.88	1.0E-127	AW161297.1	EST_HUMAN	au80e06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to TR:Q16170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ; contains element MER22 repetitive element ;
4026	13929	23706	1.09	1.0E-127	AF135188.1	NT	Homo sapiens delayed rectifier potassium channel subunit Isk mRNA, complete cds
4128	14028	23802	0.86	1.0E-127	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4160	14060	23833	21.46	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4160	14060	23834	21.46	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4395	14291	24075	0.92	1.0E-127	AF252297.1	NT	Homo sapiens cytochrome P450 rethoid metabolizing protein P450RAL-2 mRNA, complete cds
4499	14393	24178	4.16	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4532	14425		1.93	1.0E-127	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
4575	14498	24252	0.98	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
5546	15462	25533	3.72	1.0E-127	X85764.1	NT	H.sapiens NOS2 gene, exon 6
5742	15650	25757	2.67	1.0E-127	X84060.1	NT	H.sapiens TCF11 gene, exon 3-6
5816	15722	25835	6.76	1.0E-127	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8) mRNA
6578	16436	26620	1.38	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
6578	16436	26621	1.38	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7558	17409	27624	4.97	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
7558	17409	27625	4.97	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
7923	17773	28012	1.17	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8498	18371	28634	6.74	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC683184), mRNA
8498	18371	28635	6.74	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC683184), mRNA
8898	18707	29001	2.46	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
8898	18707	29002	2.46	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
9397	10138	19954	1.66	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
9397	10138	19955	1.66	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
9595	19177	28276	2.1	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
452	10396	20214	4.46	1.0E-128	BE385617.1	EST_HUMAN	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618822 5'
1138	11052	20892	1.48	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1138	11052	20893	1.48	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
2025	11916	21805	12.19	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2025	11916	21806	12.19	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2162	12049	21950	13.3	1.0E-128	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2395	12273		0.85	1.0E-128	11437455	NT	
3348	13268	23071	1.13	1.0E-128	AB033073.1	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
4565	14457	24245	5.46	1.0E-128	11426673	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds
5665	15771	25890	2.67	1.0E-128	11420965	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
6140	15988	26123	7.23	1.0E-128	BF224345.1	EST_HUMAN	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6976	16853	27046	3.28	1.0E-128	AB007923.1	NT	7q86b10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3'
6976	16853	27047	3.28	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
7834	17684	27929	1.25	1.0E-128	AA639198.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8092	17983	28232	5.94	1.0E-128	11425254	NT	ns04a11.11 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338 CHROMOSOME SEGREGATION GENE HOMOLOG CAS.;
8101	17991	28240	3.87	1.0E-128	AA926959.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
8230	18111	28364	1.79	1.0E-128	BE384475.1	EST_HUMAN	om88h08.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
9263	18068		3.66	1.0E-128	AW955290.1	EST_HUMAN	601277826F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618750 5'
116	10353	20182	2.19	1.0E-129	S37722.1	NT	EST367360 IMAGE resequences, MAGG Homo sapiens cDNA
407	10353	20182	1.35	1.0E-129	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1689	11591	21461	2.86	1.0E-129	AL096880.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1693	11595	21465	2.29	1.0E-129	AF240786.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
1693	11595	21466	2.29	1.0E-129	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1802	11699	21575	2.43	1.0E-129	11418522	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2751	12613	22503	1.19	1.0E-129	4505682	NT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
2751	12613	22504	1.19	1.0E-129	4505682	NT	Homo sapiens platelet-derived growth factor receptor, beta polypeptide (PDGFRB) mRNA
3089	13016	22808	1.35	1.0E-129	Q14585	SWISSPROT	Homo sapiens platelet-derived growth factor receptor, beta polypeptide (PDGFRB) mRNA
3089	13016	22809	1.35	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3089	13016	22810	1.35	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4073	13975	23754	2.2	1.0E-129	AB040892.1	NT	ZINC FINGER PROTEIN HZF10
4183	14083	23866	9.7	1.0E-129	AW755254.1	EST_HUMAN	Homo sapiens mRNA for KIAA1459 protein, partial cds
4183	14083	23867	9.7	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomyopathy associated gene 5
4183	14083	23867	9.7	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomyopathy associated gene 5

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5706	15614	25715	2.89	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
6229	16095	26245	5.17	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
6267	16132	26286	7.59	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
6841	16720		3.68	1.0E-129	AB014534.1	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
8554	18424	28693	3.52	1.0E-129	AA025526.1	EST_HUMAN	af7207.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1047589 5'
8618	16132	26286	9.4	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
8888	18699	28993	2.04	1.0E-129	AU143115.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
8888	18699	28994	2.04	1.0E-129	AU143115.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
9250	18960		1.87	1.0E-129	H83155.1	EST_HUMAN	Y49c05.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:199112 5' similar to SP:B48150 B48150 HP-25-HIBERNATION-RELATED PROTEIN - TAMIAS ASIATICUS=ASIAN ;
9630	19203		1.88	1.0E-129	AL120739.1	EST_HUMAN	DKFZp762K171.r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762K171 5'
1643	11547	21408	6.81	1.0E-130	BE275192.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
1643	11547	21409	6.81	1.0E-130	BE275192.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
1940	11835		2.06	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13
2743	12605		7.7	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2849	12777	22564	1.1	1.0E-130	BE664219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
2849	12777	22565	1.1	1.0E-130	BE664219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3530	13446	23243	1.07	1.0E-130	AF240698.1	NT	Homo sapiens ref1nd dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3703	12777	22564	4.77	1.0E-130	BE664219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3703	12777	22565	4.77	1.0E-130	BE664219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3857	13768	23560	1.09	1.0E-130	AW503580.1	EST_HUMAN	UHF-BN0-aky-g-06-0.U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 5'
4438	14333	24122	7.48	1.0E-130	AW843993.1	EST_HUMAN	CM4-CN0045-180200-511-402 CN0045 Homo sapiens cDNA
5029	14902	24673	1.09	1.0E-130	AW363299.1	EST_HUMAN	RCO-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
5029	14902	24674	1.09	1.0E-130	AW363299.1	EST_HUMAN	RCO-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
6301	16165	26322	2.04	1.0E-130	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7119	16996	27187	2.45	1.0E-130	AW966242.1	EST_HUMAN	EST368312 MAGE resequences, MAGD Homo sapiens cDNA
7314	17190	27392	1.57	1.0E-130	AB037756.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
8513	18385	28650	32.43	1.0E-130	M25140.1	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 2, 3 and 4
4	9991	19782	2.49	0.0E+00	AA228126.1	EST_HUMAN	zr58c04.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
4	9991	19783	2.49	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
7	9993	19786	1.44	0.0E+00	4885136	NT	zr58c04.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
							G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
							Homo sapiens checkpoint suppressor 1 (CHES1), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
15	10001	19792	1.34	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
15	10001	19793	1.34	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	10007	19799	2.45	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
20	10007	19800	2.45	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
24	10011	19804	5.57	0.0E+00	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
33	10020	19816	0.97	0.0E+00	M58600.1	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
35	10022	19819	2.41	0.0E+00	6857825	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
51	10038	19845	1.4	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
51	10038	19846	1.4	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
52	10039	19847	1.22	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-516H08 5'
52	10039	19848	1.22	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-516H08 5'
53	10040	19849	4.14	0.0E+00	L16558.1	NT	Human ribosomal protein L7 (RPL7) mRNA, complete cds
55	10042	19852	8.1	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
55	10042	19853	8.1	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
59	10045	19857	5.8	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
61	10047	19857	2.75	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
69	10054	19869	1.77	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
69	10054	19870	1.77	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
71	10054	19869	1.49	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
71	10054	19870	1.49	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
74	10058	19875	42.13	0.0E+00	AA953770.1	EST_HUMAN	on89e04.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1563870 3' similar to SW:TMOD_HUMAN P28289 TROPOMODULIN ;
76	10060	19877	1.09	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
77	10061	19877	14.77	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
86	10070	19886	47.55	0.0E+00	5016088	NT	Homo sapiens actin, beta (ACTB) mRNA
89	10073	19889	13.39	0.0E+00	U99277.1	NT	Human polyomelic 1 homolog (HPH1) mRNA, partial cds
94	10079	19895	1.46	0.0E+00	A1114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
95	10080	19896	1.03	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
102	10085	19901	6.13	0.0E+00	X91213.1	NT	H. sapiens nrx1 gene (exon 2)
110	10091	19906	1.39	0.0E+00	AI623701.1	EST_HUMAN	ts38b05.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR. ;
111	10091	19906	1.88	0.0E+00	AI623701.1	EST_HUMAN	ts38b05.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR. ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
112	12636	19907	1.83	0.0E+00	N36040.1	EST_HUMAN	yy01h09.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270017 5'
112	12636	19908	1.83	0.0E+00	N36040.1	EST_HUMAN	yy01h09.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270017 5'
115	10094	19913	0.86	0.0E+00	4505458	NT	Homo sapiens neuroligin 2 (NRP2) mRNA
126	10100	19921	3.17	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
126	10100	19922	3.17	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
135	10108	19929	1.49	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
135	10108	19930	1.49	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
147	10121		9.05	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
151	10125	19943	2.42	0.0E+00	BF036881.1	EST_HUMAN	601460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3663803 5'
153	10127		15.84	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
156	10130	19946	1.36	0.0E+00	AF111168.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
158	10132	19947	1.1	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
159	10132	19947	1.18	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
160	10133	19948	2.99	0.0E+00	W79373.1	EST_HUMAN	zd62b05.r1 Soares fetal heart_NbhH19W Homo sapiens cDNA clone IMAGE:346201 5' similar to gb:X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);
161	10134	19949	1.51	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
164	10137	19952	18.37	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
164	10137	19953	18.37	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
174	10145	19960	4.25	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
174	10145	19961	4.25	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
179	10150	19964	1.98	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
179	10150	19965	1.98	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
187	10159	19976	130.42	0.0E+00	D50659.1	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
192	10164	19981	2.83	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
192	10164	19982	2.83	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
194	10166	19984	2.92	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
194	10166	19985	2.92	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
203	12661	19991	9.33	0.0E+00	AI587308.1	EST_HUMAN	tq04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN1 (HUMAN);
203	12661	19992	9.33	0.0E+00	AI587308.1	EST_HUMAN	tq04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN1 (HUMAN);
205	10176	19994	1.94	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
208	10179		16.66	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
209	10180		3.46	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
215	10186	19999	2.48	0.0E+00	AB018294.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	10186	19999	1.95	0.0E+00	AB018294.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
217	10187	20000	1.61	0.0E+00	6678444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tspy), mRNA
224	10195	20004	3.43	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
224	10195	20005	3.43	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
224	10195	20006	3.43	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
225	10195	20004	3.99	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
225	10195	20005	3.99	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
225	10195	20006	3.99	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
226	10195	20004	12.62	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
226	10195	20005	12.62	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
226	10195	20006	12.62	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
238	10206	20023	4.66	0.0E+00	5453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
240	10208		6.54	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
247	10213	20029	3.75	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
249	10215	20032	1.46	0.0E+00	X89772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
257	10223		6.81	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
269	10234	20050	1.14	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
269	10234	20051	1.14	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
270	10236	20053	2.57	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51250), mRNA
281	10246	20066	1.11	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
281	10246	20067	1.11	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
282	10247		0.86	0.0E+00	AW845293.1	EST_HUMAN	IL2-CT0031-181199-020-B03 CT0031 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
290	10264	20074	5.26	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ16) mRNA
290	10264	20075	5.26	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ16) mRNA
301	10265	20085	4.03	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
302	10266	20086	3.11	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
303	12684		5.3	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
304	10267	20087	1.99	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylaminimidazole synthetase (GART) mRNA
305	10268		2.03	0.0E+00	AA480002.1	EST_HUMAN	zvl8c06.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:753994.5'
306	10269	20088	13.28	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
307	10269	20088	9.68	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
311	10273	20092	2.23	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
324	10285	20101	0.9	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
324	10285	20102	0.9	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
325	10286	20103	4.18	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
326	10286	20103	2.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
341	10300	20115	3.67	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
342	10301	20116	0.86	0.0E+00	4505256	NT	Homo sapiens moesin (MSN), mRNA
345	10304	20120	3.76	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
348	10307	20125	0.8	0.0E+00	U71600.1	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds
353	10311	20129	2.15	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
353	10311	20130	2.15	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
354	12665	20131	3.4	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
356	10313	20133	0.89	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
358	10315	20136	1.4	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
359	10316	20137	1.37	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
360	10316	20137	1.52	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
372	10326	20149	1.13	0.0E+00	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899.5'
381	10365	20188	5.35	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
382	10366	20189	1.01	0.0E+00	AJ363014.1	EST_HUMAN	q41h05.x1 NCJ CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2018457.3' similar to gb:X54199
387	10334	20156	3.43	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE--GLYCINE LIGASE (HUMAN);
390	10336	20159	1.38	0.0E+00	4503680	NT	RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA
391	10337	20160	2.04	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
391	10397	20161	2.04	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
392	10398	20162	1.17	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
393	10399	20163	1.94	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
393	10399	20164	1.94	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
394	10340	20165	2.43	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
395	10341	20166	0.9	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
396	10342	20167	0.84	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
396	10342	20168	0.84	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
400	10346		43.09	0.0E+00	4506808	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
414	9981	19772	1.31	0.0E+00	R17795.1	EST_HUMAN	yg09a02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31652 5'
422	10367		2.61	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
423	10368	20190	2.42	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
424	10369	20191	4.7	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
424	10369	20192	4.7	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
425	10370	20193	3.51	0.0E+00	AF193607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
438	10382	20206	2.01	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
443	10387		0.98	0.0E+00	AA324262.1	EST_HUMAN	EST27054 Cerebellum II Homo sapiens cDNA 5' end
444	10388		0.91	0.0E+00	BE254447.1	EST_HUMAN	60111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352348 5'
460	10404	20220	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
460	10404	20221	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
465	10408	20228	1.27	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
465	10408	20229	1.27	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
475	10419	20235	2.26	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
476	10420	20236	7.05	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
476	10420	20237	7.05	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
485	10428	20242	2.59	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
487	10430	20244	1.64	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'
495	10438	20250	2.17	0.0E+00	BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756 5'
496	12688	20251	1.05	0.0E+00	AW938925.1	EST_HUMAN	PM0-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA
498	10440	20253	1.07	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
499	10441	20254	1.64	0.0E+00	8923955	NT	Homo sapiens PCS26 protein (PCS26) mRNA
508	10450	20263	3.91	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
515	12669	20267	1.97	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA
520	10462	20273	1.13	0.0E+00	BF028005.1	EST_HUMAN	601764858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996998 5'

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
526	10468	20280	1.16	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
529	10471	20283	11.27	0.0E+00	6006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TOEB1L) mRNA
530	10472	20284	3.96	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
530	10472	20285	3.96	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
536	10477		5.78	0.0E+00	AF003528.1	NT	Homo sapiens X-linked arthralgia ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
544	10485	20295	1.79	0.0E+00	AW135324.1	EST_HUMAN	U1-H-B11-acb-h-04-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
554	10495		3.15	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
571	10510	20318	2.65	0.0E+00	5174742	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene encoding mitochondrial protein, mRNA
584	10522		5.28	0.0E+00	J04066.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
587	10525	20332	1.73	0.0E+00	BF104898.1	EST_HUMAN	601822627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
593	10529	20336	1.46	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
598	10534	20342	1.05	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
598	10534	20343	1.05	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
607	10543	20351	1.38	0.0E+00	AF14973.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
610	10546	20354	0.96	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
611	10547	20355	2.22	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
611	10547	20356	2.22	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
612	10548	20357	0.93	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
612	10548	20358	0.93	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
619	10556	20368	1.34	0.0E+00	AA399486.1	EST_HUMAN	zf60c07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726732 5'
623	10560	20372	6.37	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
627	10564	20375	3.17	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
627	10564	20376	3.17	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
630	10567		3.28	0.0E+00	4885526	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
637	10574	20388	2.89	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
639	10576	20391	1.06	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
642	10579	20395	1.41	0.0E+00	U05235.1	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
646	10583	20398	2.18	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
646	10583	20399	2.18	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
652	10588	20404	3.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
652	10588	20405	3.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
658	12672		0.95	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
667	10601	20419	4.56	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
672	10606	20423	4.35	0.0E+00	AB029012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
682	10615	20438	2.03	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
692	10625	20450	19.46	0.0E+00	AA614537.1	EST_HUMAN	np49d01.s1 NCL_CGAP_Br1.1 Homo sapiens cDNA clone IMAGE:129633 3' similar to gb:X57352
696	10629	20454	7.66	0.0E+00	M60675.1	NT	INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
698	10629	20455	7.66	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
706	10639	20464	1.45	0.0E+00	5032192	NT	Human von Willebrand factor gene, exons 23 through 34
712	10644	20470	3.89	0.0E+00	AF264750.1	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
712	10644	20471	3.89	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
714	10646	20474	9.78	0.0E+00	11545800	NT	Homo sapiens ALR-like protein mRNA, partial cds
719	10651	20481	1.7	0.0E+00	BE241577.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
739	10670	20505	1.12	0.0E+00	AF229990.2	NT	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
739	10670	20506	1.12	0.0E+00	AF229990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
740	10671	20507	2.4	0.0E+00	AF170492.1	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
743	10674	20510	1.55	0.0E+00	J03764.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
743	10674	20511	1.55	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
745	10676	20512	0.78	0.0E+00	AB037760.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
746	10677	20513	1.12	0.0E+00	6912749	NT	Homo sapiens mRNA for KIAA1339 protein, partial cds
747	12676	20514	0.81	0.0E+00	D30612.1	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
748	10678	20515	2.17	0.0E+00	BE869735.1	EST_HUMAN	Homo sapiens mRNA for repressor protein, partial cds
752	10682	20519	3.38	0.0E+00	R48915.1	EST_HUMAN	601445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'
753	10683	20520	2.4	0.0E+00	5032086	NT	y69g08.r1 Soares breast 2N5HBst Homo sapiens cDNA clone IMAGE:154046 5'
762	10692	20529	1.58	0.0E+00	AB011399.1	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
765	10696	20533	2.97	0.0E+00	7661965	NT	Homo sapiens gene for AF-6, complete cds
775	10705	20544	1.17	0.0E+00	D80006.1	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
775	10705	20545	1.17	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
780	10710	20549	2.64	0.0E+00	X89772.1	NT	Human mRNA for KIAA0184 gene, partial cds
784	10714	20553	2.37	0.0E+00	AB020717.1	NT	H.sapiens mRNA for interferon alpha/beta receptor (long form)
784	10714	20554	2.37	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
789	10718	20560	6.84	0.0E+00	5174478	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
790	10719		7.06	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
807	10736	20581	1.51	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	10737	20582	4.43	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
810	10739	20584	3.91	0.0E+00	4557686	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNE1) mRNA
816	10744	20590	1.24	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
816	10744	20591	1.24	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
821	10749	20596	1.14	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
825	10752	20601	1.55	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
825	10752	20602	1.55	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
832	10759		1.57	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
836	10763	20613	3.37	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
836	10763	20614	3.37	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
837	10764	20615	7.38	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
838	10765	20616	3.03	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
839	10766	20617	2.02	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
843	10770	20620	1.25	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
843	10770	20621	1.25	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
844	10771	20622	1.97	0.0E+00	AA533272.1	EST_HUMAN	ij66d07.s1 NCI_CGAP_P10 Homo sapiens cDNA clone IMAGE:997463
844	10771	20623	1.97	0.0E+00	AA533272.1	EST_HUMAN	ij66d07.s1 NCI_CGAP_P10 Homo sapiens cDNA clone IMAGE:997463
845	10772		7.39	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
849	10776	20624	1.3	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
849	10776	20625	1.3	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
850	10777	20626	2.16	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
850	10777	20627	2.16	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
873	10799	20650	0.87	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
880	10806	20655	1.85	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
880	10806	20656	1.85	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
890	10816	20655	3.93	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
900	10825		7.45	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
903	10825		3.29	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
904	10828	20673	1.5	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antichymotrypsin precursor, mRNA, partial cds
905	10829	20674	0.99	0.0E+00	S69364.1	NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
905	10829	20675	0.99	0.0E+00	S69364.1	NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
905	10829	20676	0.99	0.0E+00	S69364.1	NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
906	10830	20677	2.14	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
909	10833	20680	105.13	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
909	10833	20681	105.13	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
910	10834	20682	167.64	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
910	10834	20683	167.64	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
935	10860	20706	36.3	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
936	10861	20707	13.25	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
937	10862	20708	53.71	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
938	10863	20709	1.9	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
938	10863	20710	1.9	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
946	12681	20717	2.46	0.0E+00	A1001948.1	EST_HUMAN	os98e03.s1 NCL_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
946	12681	20718	2.46	0.0E+00	A1001948.1	EST_HUMAN	os98e03.s1 NCL_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
948	10872	20720	7.21	0.0E+00	7657266	NT	Homo sapiens KIAA0929 protein Mix2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
959	10882	20730	2.52	0.0E+00	AB030566.1	NT	Homo sapiens mRNA for PSP24, complete cds
967	10890	20736	4.64	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
967	10890	20737	4.64	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
967	10890	20738	4.64	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
968	10891	20739	1.27	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
968	10891	20740	1.27	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
977	10900	20747	1.25	0.0E+00	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
988	10910	20756	1.05	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
989	10911	20756	7.48	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
990	10911	20756	6.69	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
993	10914		1.99	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
994	10914		3.49	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
997	10917	20761	0.84	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
998	10917	20761	1.43	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
999	10917	20761	1.81	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1000	10918	20762	2.23	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1003	10921	20765	2.28	0.0E+00	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1007	10925	20769	2.66	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1009	10927		1.94	0.0E+00	AA458680.1	EST_HUMAN	SW:PRS8_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1012	10930	20774	1.04	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1012	10930	20775	1.04	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1013	10931	20776	0.97	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1013	10931	20777	0.97	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1017	10935		4.44	0.0E+00	8922933	NT	Homo sapiens hypothetical protein FLJ11196 (FLJ11196), mRNA
1031	10949	20792	2.19	0.0E+00	4758569	NT	Homo sapiens heat shock 70kD protein 9B (mortalin-2) (HSPA9B) mRNA
1049	10966	20807	1.88	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1049	10966	20808	1.88	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1053	10970	20812	2.52	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1053	10970	20813	2.52	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1054	10971	20814	38.24	0.0E+00	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1056	10973		0.93	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1058	10975	20818	3.28	0.0E+00	5174384	NT	Homo sapiens alkylation repair, alkB homolog (ABH), mRNA
1066	10982	20827	3.58	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3) mRNA
1080	10996	20837	3.6	0.0E+00	BE005208.1	EST_HUMAN	MR0-BN0115-200300-003-H08 BN0115 Homo sapiens cDNA
1103	11019	20861	3.79	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1103	11019	20862	3.79	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1116	11031	20872	1.12	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1116	11031	20873	1.12	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1117	11032	20874	5.7	0.0E+00	4506712	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1119	11034	20876	0.86	0.0E+00	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1121	11036	20878	10.18	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1123	11038	20879	12.02	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1124	11039	20880	2.03	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1124	11039	20881	2.03	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1128	11042	20884	0.95	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
1129	11043	20885	1	0.0E+00	A147650.1	EST_HUMAN	qb22d10.x1 Soares_pregnant uterus NBHPU Homo sapiens cDNA clone IMAGE:1697011 3'
1131	11045	20887	1.44	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1140	11054	20896	1.13	0.0E+00	9966844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1152	11065	20908	2.31	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1152	11065	20909	2.31	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1154	11067	20911	1.59	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1161	11074	20920	1.02	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1191	11101		1.13	0.0E+00	7657336	NT	Homo sapiens mutl (E. coli) homolog 3 (MLH3), mRNA
1206	11116	20962	1.14	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1206	11116	20963	1.14	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1207	11117	20964	1.31	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1208	12687	20965	0.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1226	11134	20988	3.62	0.0E+00	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1227	11135	20989	1.3	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1245	11152		1.48	0.0E+00	Y18000.1	NT	Homo sapiens NF2 gene
1253	11160	21009	45.69	0.0E+00	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1260	11187	21018	3.66	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
1266	11173	21022	1.71	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1266	11173	21023	1.71	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1278	11186	21036	6.42	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1278	11186	21037	6.42	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1278	11186	21038	6.42	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1279	11187		2.6	0.0E+00	AF098156.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1289	12699	21050	1.1	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1289	12699	21051	1.1	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1295	11202	21057	1.71	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1296	11203	21058	0.82	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1298	11205	21059	1.07	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1300	11207	21061	4.1	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1301	11208	21062	1.06	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	11209	21063	4.94	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1303	11210	21064	4.1	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1303	11210	21065	4.1	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1315	11221	21078	1.35	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1366	11291	21147	0.89	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1393	11298	21156	9.13	0.0E+00	AJ27892.1	NT	Homo sapiens partial TTN gene for titin
1396	11301	21160	0.96	0.0E+00	AI208756.1	EST_HUMAN	qg38b06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP:T27A1.5 OE14213 ;
1397	11302	21161	8.18	0.0E+00	6042206	NT	RAN, member RAS oncogene family; Homo sapiens RAN, member RAS oncogene family (RAN), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1407	11312	21173	1.4	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1407	11312	21174	1.4	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1409	11314	21177	2.54	0.0E+00	7705665	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1409	11314	21178	2.54	0.0E+00	7705665	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1412	11317	21180	5.25	0.0E+00	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1421	11327	21192	3.51	0.0E+00	AF038280.1	NT	Homo sapiens alpha1-6fucosyltransferase (alpha1-6FucT) gene, exon 7
1432	11337	21203	9.7	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1432	11337	21204	9.7	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1437	11342	21208	1.02	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1437	11342	21209	1.02	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1445	11350	21214	3.05	0.0E+00	AL132999.1	NT	Novel human gene on chromosome 20
1447	11352	21215	1.03	0.0E+00	AL137764.1	NT	Novel human gene mapping to chromosome 1
1451	11356	21220	1.22	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1454	11359	21223	4.97	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1456	11361	21225	1.51	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1456	11361	21226	1.51	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1457	11362		0.97	0.0E+00	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1462	11367	21231	3.65	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1462	11367	21232	3.65	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1495	11399	21259	1.32	0.0E+00	7709434	NT	Homo sapiens hHDC for homolog of Drosophila headcase (LOC51696), mRNA
1509	11414	21273	0.95	0.0E+00	AA481172.1	EST_HUMAN	aa34a03.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815116 5'
1515	11420	21276	11.95	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1515	11420	21277	11.95	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1517	11422	21280	0.97	0.0E+00	D10884.1	NT	Bovine mRNA for neurocalcin
1519	11424		2.03	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1520	11425	21283	3.9	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1520	11425	21284	3.9	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1521	11426	21285	3.12	0.0E+00	7662405	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1522	11427		8.41	0.0E+00	7656972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1527	11432	21289	5.02	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1530	11435	21291	5.75	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1530	11435	21292	5.75	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1531	12697		10.12	0.0E+00	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1532	11436	21293	11.11	0.0E+00	M14199.1	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1541	11446	21306	5.81	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1541	11446	21307	5.81	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1543	11448	21308	12.91	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (OSPG4), mRNA
1562	11467	21325	1.66	0.0E+00	Z83738.1	NT	H. sapiens H2B/e gene
1563	11468	21326	1.38	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1563	11468	21327	1.38	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1564	11469	21328	5.5	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKBOFO2 5'
1564	11469	21329	5.5	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKBOFO2 5'
1566	12698	21330	1.5	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1570	11474	21331	0.98	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1572	11476	21334	2.49	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1572	11476	21335	2.49	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1574	11478	21336	14.05	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1574	11478	21337	14.05	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1576	11480	21339	0.94	0.0E+00	M91803.1	NT	Human sodium channel mRNA
1591	11495	21355	4.67	0.0E+00	H26973.1	EST_HUMAN	yo76c05.s1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:183848 3'
1602	11507	21368	~ 1.4	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1602	11507	21369	1.4	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1645	11549	21410	1.27	0.0E+00	A1768104.1	EST_HUMAN	wg81b07.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:Q62788 Q62788 CYS2HIS2 ZINC FINGER PROTEIN. ;
1646	11550	21411	3.33	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1650	11553	21415	1.56	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1650	11553	21416	1.56	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1652	11555	21418	1.22	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1653	11556	21419	0.92	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
1657	11559	21423	1.11	0.0E+00	4557610	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1659	11561	21426	2.99	0.0E+00	H30132.1	EST_HUMAN	yo59e08.r1 Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099
1659	11561	21427	2.99	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1661	11563	21429	1.21	0.0E+00	Z80780.1	NT	yo59e08.r1 Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099
1661	11563	21430	1.21	0.0E+00	Z80780.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1664	11566		7.85	0.0E+00	5031748	NT	H. sapiens H2B/h gene
							H. sapiens H2B/h gene
							Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1672	11574	21442	4.55	0.0E+00	8923841	NT	Homo sapiens FOXJ2 forkhead factor (LOC55810), mRNA
1677	11579	21448	1.02	0.0E+00	M75980.1	NT	Human hepatocyte growth factor gene, exon 15
1677	11579	21449	1.02	0.0E+00	M75980.1	NT	Human hepatocyte growth factor gene, exon 15
1680	11582	21453	1.43	0.0E+00	4828973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMV1A1) mRNA
1685	11587	21460	2.59	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1687	11589		2.6	0.0E+00	S94400.1	NT	TCR zeta [human, Genomic/mRNA, 365 nt, segment 1 of 8]
1699	12702	21472	0.87	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
1710	11611	21481	1.75	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1745	12703		13.81	0.0E+00	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1749	11649	21517	0.9	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1749	11649	21518	0.9	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1751	11651	21521	1.23	0.0E+00	U63963.1	NT	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1754	11654		1.13	0.0E+00	W76571.1	EST_HUMAN	z366g09.r1 Soares_fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:345664.5
1755	12704	21525	3.89	0.0E+00	4505332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1755	11664	21538	7.25	0.0E+00	U14967.1	NT	Homo sapiens ribosomal protein L21 mRNA, complete cds
1767	11666	21541	4.6	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1768	11667	21542	4.34	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1768	11667	21543	4.34	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1768	11667	21544	4.34	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1781	11680	21553	1.04	0.0E+00	4504626	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1781	11680	21559	1.04	0.0E+00	4504626	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1793	11691	21566	10.22	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1793	11691	21567	10.22	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1804	11701	21576	3.19	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1804	11701	21577	3.19	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1805	11702	21578	4.52	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1805	11702	21579	4.52	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1809	11706	21584	1.47	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B11-afn-f-07-q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333.3
1809	11706	21585	1.47	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B11-afn-f-07-q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333.3

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1832	11729	21603	2.08	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1832	11729	21604	2.08	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1852	11748	21623	0.99	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0126-200300-012-504 BN0126 Homo sapiens cDNA
1881	11777	21651	3.52	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1881	11777	21652	3.52	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1889	11785		1.65	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1890	12707	21661	4.06	0.0E+00	M99478.1	NT	Human transglutaminase mRNA, complete cds
1890	12707	21662	4.06	0.0E+00	M99478.1	NT	Human transglutaminase mRNA, complete cds
1895	11790	21669	2.28	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1895	11790	21670	2.28	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1898	11794		5.25	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1903	11799		1.9	0.0E+00	M56532.1	NT	Human topoisomerase I pseudogene 1
1905	12708	21678	0.94	0.0E+00	5901905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
1913	11808	21685	1.97	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1913	11808	21686	1.97	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1924	11819		1.12	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
1926	11821	21700	1.15	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1926	11821	21701	1.15	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1927	11822	21702	8.13	0.0E+00	4828638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1927	11822	21703	8.13	0.0E+00	4828638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1937	11832	21715	1.21	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1937	11832	21716	1.21	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1943	11838	21720	2.01	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1943	11838	21721	2.01	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1945	11840	21722	1.33	0.0E+00	AW193024.1	EST_HUMAN	X69801.X1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2679913 3'
1945	11840	21723	1.33	0.0E+00	AW193024.1	EST_HUMAN	X69801.X1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2679913 3'
1946	11841	21724	8.4	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1946	11841	21725	8.4	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1948	11843	21727	0.92	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1948	11843	21728	0.92	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1955	11850	21737	2.31	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
1975	11868	21759	0.86	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1975	11868	21760	0.86	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2011	11903	21793	1.09	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
2011	11903	21794	1.09	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
2013	11905	21795	0.96	0.0E+00	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2014	11906	21796	5.46	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2015	11314	21177	1.01	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2015	11314	21178	1.01	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2017	11908	21798	1.95	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2017	11908	21799	1.95	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2019	11910		2.34	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2021	11912		1.6	0.0E+00	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2022	11913	21802	0.92	0.0E+00	Z42399.1	EST_HUMAN	HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-01c02
2024	11915		1.94	0.0E+00	A1244247.1	EST_HUMAN	qv60f08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element
2029	11920	21811	2.59	0.0E+00	BE677225.1	EST_HUMAN	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2031	11922	21813	1.5	0.0E+00	BF315325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2031	11922	21814	1.5	0.0E+00	BF315325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2035	11926	21819	2.42	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2035	11926	21820	2.42	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2040	11931	21826	2.53	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2040	11931	21827	2.53	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2045	11936	21831	1.32	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2067	11957		2.63	0.0E+00	BE767964.1	EST_HUMAN	QV1-GN0085-140800-318-c10 GN0065 Homo sapiens cDNA
2068	11958		1.13	0.0E+00	AF018963.1	NT	Homo sapiens X-linked juvenile retinoschisis protein (XLR1) gene, exon 6 and complete cds
2070	11960	21854	3.09	0.0E+00	BF027562.1	EST_HUMAN	601672066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2071	11961	21855	2	0.0E+00	4503756	NT	Homo sapiens flavin containing monooxygenase 2 (FMO2) mRNA
2073	11963	21856	0.99	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2074	11964	21857	1.16	0.0E+00	AW752708.1	EST_HUMAN	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA
2076	11966	21859	1.96	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2076	11966	21860	1.96	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2112	12001		1.19	0.0E+00	7657252	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L), mRNA
2132	12020		1.6	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2138	12026	21922	1.02	0.0E+00	BE274936.1	EST_HUMAN	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2140	12028	21925	1.09	0.0E+00	D87685.1	NT	Human mRNA for KIAA0244 gene, partial cds
2141	12029	21926	10.46	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2141	12029	21927	10.46	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2143	12031	21929	1.4	0.0E+00	AA931691.1	EST_HUMAN	cc32e01.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1567896 3'
2145	12033		0.9	0.0E+00	M19828.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 22 through 29
2148	12036	21933	17.1	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4150734 5'
2149	12037	21934	11.29	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2152	12040	21937	2.35	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2152	12040	21938	2.35	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2156	12714	21943	1.77	0.0E+00	BF313617.1	EST_HUMAN	601900261F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'
2159	12046	21946	1.92	0.0E+00	BE018750.1	EST_HUMAN	bb84e02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;
2160	12047	21947	0.92	0.0E+00	AA042813.1	EST_HUMAN	zk53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2160	12047	21948	0.92	0.0E+00	AA042813.1	EST_HUMAN	zk53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2168	12055	21956	2.32	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2168	12055	21957	2.32	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2169	12056	21958	2.63	0.0E+00	7662401	NT	Homo sapiens KIAA00952 protein (KIAA0952), mRNA
2169	12056	21959	2.63	0.0E+00	7662401	NT	Homo sapiens KIAA00952 protein (KIAA0952), mRNA
2174	12061		1.04	0.0E+00	U36294.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
2183	12080	21984	7.56	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2199	12086	21988	1.44	0.0E+00	7662401	NT	Homo sapiens KIAA00952 protein (KIAA0952), mRNA
2206	12093	21986	1.09	0.0E+00	BE885281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'
2209	12096	21989	0.87	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2209	12096	22000	0.87	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2212	12098	22002	1.36	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2253	12137	22034	4.16	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2253	12137	22035	4.16	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2254	12138	22036	2.51	0.0E+00	AI076404.1	EST_HUMAN	oz09c07.x1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2256	12140	22038	2.21	0.0E+00	AA429001.1	EST_HUMAN	zv78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2256	12140	22039	2.21	0.0E+00	AA429001.1	EST_HUMAN	zv78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2258	12142	22041	2.23	0.0E+00	BF347039.1	EST_HUMAN	602021846F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157339 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2263	12147	22047	1.19	0.0E+00	L02840.1	NT	Homo sapiens potassium channel Kv2.1 mRNA, complete cds
2264	12148	22048	2.03	0.0E+00	6325466	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2271	12155	22054	1	0.0E+00	BE676095.1	EST_HUMAN	7722a02.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3295370 3' similar to TR:O94939 O94939 KIAA0857 PROTEIN;
2274	12158	22056	10.08	0.0E+00	AF044571.1	NT	Homo sapiens phosphatase kinase alpha subunit (PHKA2) gene, exon 32
2275	12159	22057	2.72	0.0E+00	AI625542.1	EST_HUMAN	ty57c08.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'
2280	12164	22061	1.76	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2280	12164	22062	1.76	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2291	12173	22072	4.26	0.0E+00	AF058332.1	NT	Homo sapiens titin (TTN) gene, alternative splice products, partial cds
2291	12173	22073	4.26	0.0E+00	AF058332.1	NT	Homo sapiens titin (TTN) gene, alternative splice products, partial cds
2300	12182	22079	2.88	0.0E+00	5174678	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2304	12185	22083	1.75	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002064 5'
2305	12186		5.71	0.0E+00	BE794026.1	EST_HUMAN	601586843F1 NIH_MGC.7 Homo sapiens cDNA clone IMAGE:3941003 5'
2306	12187	22084	0.98	0.0E+00	AW867076.1	EST_HUMAN	MR1-SND033-120400-002-a04 SN0033 Homo sapiens cDNA
2307	12188	22085	1.97	0.0E+00	7662017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2308	12189	22086	1.44	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2308	12189	22087	1.44	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2309	12190		2.31	0.0E+00	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2310	12191	22088	7.57	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2310	12191	22089	7.57	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2310	12191	22090	7.57	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2327	12208		0.96	0.0E+00	BE814424.1	EST_HUMAN	MR0-BN0070-090600-029-d12 BN0070 Homo sapiens cDNA
2363	12243	22138	1.34	0.0E+00	AU119882.1	EST_HUMAN	AU119882 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
2366	12246		3.64	0.0E+00	AI042035.1	EST_HUMAN	ox60b02.x1 Soares_NhHMPu.S1 Homo sapiens cDNA clone IMAGE:1660683 3' similar to TR:O08662 O08662 230KDA PHOSPHATIDYLINOSITOL 4-KINASE. ;
2369	12249	22141	0.98	0.0E+00	AW303998.1	EST_HUMAN	xv15f07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813221 3' similar to TR:O54924 O54924 EXO84. ;
2371	12251		2.03	0.0E+00	BE895605.1	EST_HUMAN	601432608F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918168 5'
2382	12262		1.69	0.0E+00	AB005622.1	EST_HUMAN	AB005622 HeLa cDNA (T.Noma) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2386	12265	22158	5.63	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2390	12268	22162	2.48	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
2390	12268	22163	2.48	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2398	12276	22172	2.28	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2402	12279	22176	0.98	0.0E+00	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
2410	12287	22185	3.95	0.0E+00	5729777	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2414	12291	22188	0.87	0.0E+00	BE831003.1	EST_HUMAN	CMD-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
2414	12291	22189	0.87	0.0E+00	BE831003.1	EST_HUMAN	CMD-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
2419	12296	22193	2.27	0.0E+00	BF569144.1	EST_HUMAN	802184558T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300383 3'
2428	12305	22201	2.66	0.0E+00	AW466922.1	EST_HUMAN	ha04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
2430	12307	22202	3.45	0.0E+00	AW501010.1	EST_HUMAN	UI-HF-BPOp-ais-c-07-0-UI.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2444	12321	22219	2.08	0.0E+00	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2444	12321	22220	2.08	0.0E+00	5453965	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2457	12334		2.35	0.0E+00	AW813653.1	EST_HUMAN	RC3-ST0197-300300-016-c04 ST0197 Homo sapiens cDNA
2462	12339	22233	16.13	0.0E+00	BE795542.1	EST_HUMAN	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946518 5'
2463	11792	21671	1.18	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
2464	12340	22234	1.8	0.0E+00	BF509482.1	EST_HUMAN	UI-H-B14-a0z-b-08-0-UI.s1 NCI_CGAP_Sub88 Homo sapiens cDNA clone IMAGE:3086535 3'
2467	12343	22236	2.25	0.0E+00	Z32684.2	NT	Homo sapiens mRNA for membrane transport protein (XK gene)
2469	12345		5.57	0.0E+00	5453871	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFR) mRNA
2471	12347	22239	1.99	0.0E+00	BE910378.1	EST_HUMAN	601503356F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3905148 5'
2472	12348	22240	1.96	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2473	12349	22241	55.78	0.0E+00	BE150865.1	EST_HUMAN	RC4-HT0276-160200-013-005 HT0276 Homo sapiens cDNA
2474	12350	22242	1.14	0.0E+00	8923340	NT	Homo sapiens hypothetical protein FLJ20366 (FLJ20366), mRNA
2475	12351	22243	3.21	0.0E+00	U93239.1	NT	Human Sec62 (Sec62) mRNA, complete cds
2481	12357	22249	1.64	0.0E+00	BE886490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909866 5'
2486	12361	22255	4.39	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2486	12361	22256	4.39	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2488	12363	22259	0.97	0.0E+00	AF245505.1	NT	Homo sapiens adiclin mRNA, complete cds
2504	12379	22267	1.27	0.0E+00	BE530921.1	EST_HUMAN	601064738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2509	12383	22274	3.8	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2509	12383	22275	3.8	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2510	12384	22276	1.19	0.0E+00	BE292896.1	EST_HUMAN	601106312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5'
2510	12384	22277	1.19	0.0E+00	BE292896.1	EST_HUMAN	601106312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5'
2511	12385	22278	0.99	0.0E+00	BF223041.1	EST_HUMAN	7q2/h12.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:3 similar to TR:O00246 O00246
2514	12388	22280	7.65	0.0E+00	AF245505.1	NT	HYPOTHETICAL 9.3 KD PROTEIN ;
2540	12414	22304	1.05	0.0E+00	BE296613.1	EST_HUMAN	Homo sapiens adiclin mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2553	12654	22318	2.37	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2553	12654	22319	2.37	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2554	12426		3.85	0.0E+00	BF513835.1	EST_HUMAN	U1H-BW1-amp-f-12-Q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070631 3'
2560	12432	22325	2.8	0.0E+00	BF672818.1	EST_HUMAN	602152653F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293612 5'
2562	12434		1.16	0.0E+00	BE616695.1	EST_HUMAN	601279873F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3621786 5'
2569	12440	22332	1.34	0.0E+00	AB037742.1	NT	Homo sapiens mRNA for KIAA1321 protein, partial cds
2570	12441	22333	0.97	0.0E+00	AI571737.1	EST_HUMAN	tn19b08.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gbL20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN);
2571	12442	22334	2.27	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF21) mRNA
2573	12444	22336	5.78	0.0E+00	AB037859.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2574	12445	22337	1.03	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2574	12445	22338	1.03	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2577	12448	22339	1.1	0.0E+00	BE293328.1	EST_HUMAN	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5'
2585	12456		10.42	0.0E+00	BE792472.1	EST_HUMAN	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'
2595	12465	22358	2.46	0.0E+00	4504686	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2601	12727	22365	7.02	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
2608	12476		1.09	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2609	12477	22369	5.19	0.0E+00	AF173227.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2613	12481	22370	1.17	0.0E+00	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
2616	12484	22373	0.98	0.0E+00	AU133385.1	EST_HUMAN	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'
2617	12485	22374	1.41	0.0E+00	M69225.1	NT	Human bullous pemphigoid antigen (BPAG1) mRNA, complete cds
2619	12487	22376	1.21	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2619	12487	22377	1.21	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2622	12490	22380	1.29	0.0E+00	AW887015.1	EST_HUMAN	RC1-OT0086-220300-011-407 OT0086 Homo sapiens cDNA
2626	12494	22385	1	0.0E+00	BF000018.1	EST_HUMAN	7h15h05.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316089 3'
2627	12495	22386	3.25	0.0E+00	BE383165.1	EST_HUMAN	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2628	12496		2.74	0.0E+00	BE531263.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610267 5'
2656	12523	22413	1.74	0.0E+00	8922843	NT	Homo sapiens hypothetical protein FLJ11052 (FLJ11052), mRNA
2690	12555		8.72	0.0E+00	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2691	12556	22443	0.88	0.0E+00	BE794884.1	EST_HUMAN	601589625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'
2698	12562	22452	3.59	0.0E+00	U36253.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 5

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2700	12564	22454	1.08	0.0E+00	7669517	NT	Homo sapiens neuregulin 1 (NRG1), transcript variant SMDF, mRNA
2701	12565	22455	10.23	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2708	12571	22462	10.37	0.0E+00	BE796376.1	EST_HUMAN	601591991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'
2709	12572	22463	3.2	0.0E+00	BF680632.1	EST_HUMAN	602155923F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297132 5'
2712	12731	22467	13.51	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689564 5'
2713	12575		1.28	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2715	12577	22470	2.17	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2715	12577	22471	2.17	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2716	12578	22472	0.9	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2716	12578	22473	0.9	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2717	12579	22474	2.2	0.0E+00	AF290195.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2718	12580		15.67	0.0E+00	AV651066.1	EST_HUMAN	AV651066 GLC Homo sapiens cDNA clone GLCCLD07 3'
2719	12581	22475	1.72	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2719	12581	22476	1.72	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-508 TN0141 Homo sapiens cDNA
2723	12585	22479	3.21	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (ODR1) mRNA
2723	12585	22480	3.21	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (ODR1) mRNA
2727	12589	22485	2.2	0.0E+00	BE747193.1	EST_HUMAN	601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929472 5'
2730	12592	22488	0.97	0.0E+00	BE79636.1	EST_HUMAN	RC4-HT0387-170300-012-011 HT0587 Homo sapiens cDNA
2741	12603		1.3	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2742	12604	22498	3.47	0.0E+00	BF514110.1	EST_HUMAN	UI-H-BW1-amiw-e-07-O-UJ.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'
2748	12610		1.07	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2754	12616	22507	4.95	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
2768	12620	22513	1.73	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
2761	12623	22515	9.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2761	12623	22516	9.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2763	12625		11.15	0.0E+00	AB79163.1	EST_HUMAN	au55d04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to SW:R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A :
2766	12628	22521	1.97	0.0E+00	BF530661.1	EST_HUMAN	602071957F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4214679 5'
2767	12629	22522	2.91	0.0E+00	BE872768.1	EST_HUMAN	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854642 5'
2769	12631	22523	1.11	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2769	12631	22524	1.11	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2770	12632	22525	10.1	0.0E+00	BE3300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'
2770	12632	22526	10.1	0.0E+00	BE3300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'
2775	10151	19966	4.6	0.0E+00	S76830.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2778	12638		1.94	0.0E+00	AB033281.1	NT	Homo sapiens BTRCP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2784	10649	20479	1.37	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2784	10649	20480	1.37	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2789	10941	20784	3.58	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2789	10941	20785	3.58	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2805	12735	22534	2.39	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene
2806	12736		1.27	0.0E+00	AF068624.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
2808	12738		1.1	0.0E+00	AB040960.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2814	12743		1.07	0.0E+00	AJ238852.1	NT	Homo sapiens partial rpl3 gene for ribosomal protein L3, U82 snRNA, U83a snRNA and U83b snRNA genes
2815	12744	22538	2.24	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2819	12748	22541	5.94	0.0E+00	M80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
2822	12761	22543	1.58	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2822	12761	22544	1.58	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2824	12763		1.38	0.0E+00	X73428.1	NT	H. sapiens Id3 gene for HLH type transcription factor
2826	12765		2.84	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
2828	12757	22547	2.58	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
2833	12761	22551	43.46	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2833	12761	22552	43.46	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2837	12765	22555	1.34	0.0E+00	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2838	12766		4.62	0.0E+00	Y10658.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2839	12767		0.96	0.0E+00	AF152303.1	NT	Homo sapiens protodactherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2840	12768	22556	25.08	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2840	12768	22557	25.08	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2851	12779	22568	2.42	0.0E+00	4507280	NT	Homo sapiens serine/threonine kinase 9 (STK9) mRNA
2854	12782	22572	1.35	0.0E+00	AL047599.1	EST_HUMAN	DKFZp586G0621_r1 586 (synonym: huter1) Homo sapiens cDNA clone DKFZp586G0621
2855	12783	22573	1.25	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2855	12783	22574	1.25	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2856	12784		3.42	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2858	12786	22576	4.95	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2858	12786	22577	4.95	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2866	12794	22588	1.64	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2866	12794	22589	1.64	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2867	12795	22590	1.08	0.0E+00	AA215579.1	EST_HUMAN	z99b11.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:683517 3' similar to contains Alu repetitive element
2874	12801		3.09	0.0E+00	Y19210.1	NT	Homo sapiens HHb5 gene for hair keratin, exons 1 to 9
2877	12804	22599	1.16	0.0E+00	4758279	NT	Homo sapiens Epha4 (EPHA4) mRNA
2878	12805	22600	18.66	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2879	12806	22601	1.25	0.0E+00	AI561002.1	EST_HUMAN	tn18d07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2879	12806	22602	1.25	0.0E+00	AI561002.1	EST_HUMAN	tn18d07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2881	12808	22604	1.87	0.0E+00	P32740	SWISSPROT	ZINC FINGER PROTEIN 132
2882	12809	22605	1.5	0.0E+00	AF152338.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2897	12824	22617	1.34	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2897	12824	22618	1.34	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2898	12825	22619	4.98	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2898	12825	22620	4.98	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2901	12828	22623	2.66	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2901	12828	22624	2.66	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2902	12829	22625	3.23	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
2902	12829	22626	3.23	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
2907	12833	22630	1.27	0.0E+00	BF110702.1	EST_HUMAN	7n4d003.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1
2907	12833	22631	1.27	0.0E+00	BF110702.1	EST_HUMAN	Q9VLN1 CG17293 PROTEIN. ;
2915	12842	22642	2.03	0.0E+00	4505084	NT	Q9VLN1 CG17293 PROTEIN. ;
2915	12842	22643	2.03	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2917	12844	22645	0.94	0.0E+00	4885214	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2917	12844	22646	0.94	0.0E+00	4885214	NT	Homo sapiens v-erb-a avian erythroblastic leukemia viral oncogene homolog-like 4 (ERBB4) mRNA
2924	12851	22651	1.6	0.0E+00	4758827	NT	Homo sapiens v-erb-a avian erythroblastic leukemia viral oncogene homolog-like 4 (ERBB4) mRNA
2927	12854	22654	1.3	0.0E+00	X15309.1	NT	Homo sapiens neurxin III (NRXN3) mRNA
2927	12854	22655	1.3	0.0E+00	X15309.1	NT	H. sapiens NF-H gene, exon 4
2929	12856	22657	7.93	0.0E+00	AF106275.1	NT	H. sapiens NF-H gene, exon 4
2929	12856	22657	7.93	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2943	12870		1.13	0.0E+00	AI149880.1	EST_HUMAN	ql43f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2952	12879	22677	0.84	0.0E+00	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
2952	12879	22678	0.84	0.0E+00	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
2953	12880	22679	0.97	0.0E+00	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
2954	12881	22680	2.15	0.0E+00	AB004884.1	NT	Homo sapiens mRNA for PKU-alpha, partial cds
2954	12891	22689	1.33	0.0E+00	7662273	NT	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA
2955	12892	22690	1.59	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2955	12892	22691	1.59	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2990	12918		0.89	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2992	12920	22714	1.04	0.0E+00	M74099.1	NT	Human displacement protein (CCAAT) mRNA
3001	12929	22721	0.82	0.0E+00	4506882	NT	Homo sapiens semenogelin 1 (SEMG1) mRNA
3006	12934		4.85	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3009	12937	22730	7.86	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3009	12937	22731	7.86	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3011	12939		5.08	0.0E+00	AL359403.1	NT	Isoform 2 of a novel human mRNA from chromosome 22
3014	12942	22735	2.02	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
3017	12945						Homo sapiens transcription factor (GHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a-
3019	12947	22739	1.74	0.0E+00	AF196779.1	NT	Homo sapiens interleukin 2 receptor, beta (IL2RB) mRNA
3038	12966	22760	0.99	0.0E+00	4504664	NT	Human germline gene 16.1 for Ig lambda L-chain C region (IgL-C16.1)
3043	12970		2.79	0.0E+00	X03529.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3047	12974	22767	1.85	0.0E+00	AF199355.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3068	12995	22786	1.89	0.0E+00	AF064589.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3069	12996	22787	2.85	0.0E+00	AF265208.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3074	13001	22791	3.97	0.0E+00	AF149773.1	NT	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
3075	13002	22792	4.21	0.0E+00	7662139	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
3102	13028	22824	1.64	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
3111	13036	22832	3.45	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3115	13040	22836	19.64	0.0E+00	L20941.1	NT	Human ferritin heavy chain mRNA, complete cds
3115	13040	22837	1.79	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3123	13048	22845	1.79	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
			9.41	0.0E+00	T94870.1	EST_HUMAN	ye32f03.s1 Stratagene lung #937210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP:S29539 S29539 BASIC PROTEIN, 23K -;

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3138	13063	22862	1.1	0.0E+00	BF243336.1	EST_HUMAN	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 5'
3140	13065	22863	1.03	0.0E+00	A1968086.1	EST_HUMAN	wu12h10.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2516803 3'
3145	13070	22870	3.99	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3145	13070	22871	3.99	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3156	13081	22883	1.5	0.0E+00	4758827	NT	Homo sapiens neurexin III (NFXN3) mRNA
3156	13081	22884	1.5	0.0E+00	4758827	NT	Homo sapiens neurexin III (NFXN3) mRNA
3163	13088	22892	7.73	0.0E+00	.4504658	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3164	13089	22893	3.26	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3164	13089	22894	3.26	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3180	13105	22910	2.44	0.0E+00	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3183	13108	22912	2.23	0.0E+00	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
3188	13113	22918	0.82	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3188	13113	22919	0.82	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3190	13115	22920	26.3	0.0E+00	AA74783.1	EST_HUMAN	ae87b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3'
3198	13123	22928	4.53	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3198	13123	22929	4.53	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3210	13134	22935	1.56	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3215	13139	22942	3.35	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3224	13148		4.39	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
3225	13149	22949	1.19	0.0E+00	AF019413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B (Bf), and complement component C2 (C2) genes.>
3227	13151	22951	4.15	0.0E+00	AF055084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3237	15066	22959	3.46	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3237	15066	22960	3.46	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3252	13175	22973	2	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3253	13176	22974	0.89	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3282	13203	23003	4.86	0.0E+00	A1599294.1	EST_HUMAN	tr58f08.x2 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2222535 3' similar to SW:RL11_RAT
3289	13211	23011	2.98	0.0E+00	AF128893.1	NT	P25121 60S RIBOSOMAL PROTEIN L11, contains Alu repetitive element;
3289	13211	23012	2.98	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3290	13212	23013	1	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3290	13212	23014	1	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3290	13212	23014	1	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3292	13214	23015	1.01	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3292	13214	23016	1.01	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3296	13218	23019	11.07	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
3298	13220	23021	0.96	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
3303	13224	23026	0.99	0.0E+00	BE779039.1	EST_HUMAN	601464995F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3688246 5'
3350	13270	23073	3.01	0.0E+00	AU123664.1	EST_HUMAN	AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'
3357	13276	23076	1.66	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3357	13276	23077	1.66	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3360	13279	23079	1.43	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
3361	13280	23080	0.99	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA11) mRNA, complete cds
3377	13295	23094	1.35	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3377	13295	23095	1.35	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3378	13296	23096	0.96	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
3381	13299	23098	1.71	0.0E+00	5803067	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3390	12565	22455	6.04	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL-1) gene, complete cds
3395	13312	23111	2.08	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3398	13315	23115	1.53	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3398	13315	23116	1.53	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3400	13317	23118	5.53	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and incA, incB, and incC incompatibility determinants
3402	13319	23120	1.21	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
3409	13326	23126	3.68	0.0E+00	AI935159.1	EST_HUMAN	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634
3409	13326	23127	3.68	0.0E+00	AI935159.1	EST_HUMAN	NEURAL CELL ADHESION MOLECULE. ;
3413	13330	23132	2.67	0.0E+00	AJ278120.1	NT	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634
3420	13337	23141	2.86	0.0E+00	6552332	NT	NEURAL CELL ADHESION MOLECULE. ;
3420	13337	23142	2.86	0.0E+00	6552332	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3426	13343	23148	1.14	0.0E+00	M14123.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3431	13348	23153	6.18	0.0E+00	U43293.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3436	13353	23157	1.01	0.0E+00	9558718	NT	Human endogenous retrovirus HERV-K10
3436	13353	23158	1.01	0.0E+00	9558718	NT	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds
3436	13353	23158	1.01	0.0E+00	9558718	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3436	13353	23158	1.01	0.0E+00	9558718	NT	Homo sapiens hypothetical protein (AF038169), mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3440	13357	23163	2.06	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3440	13357	23164	2.06	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3448	13365	23172	1.23	0.0E+00	AF231922.1	NT	Homo sapiens chromosome 21 unknown mRNA
3455	13371	23175	0.94	0.0E+00	AA628677.1	EST_HUMAN	ab51f12.r1 Strategene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844367 5'
3455	13371	23176	0.94	0.0E+00	AA628677.1	EST_HUMAN	ab51f12.r1 Strategene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844367 5'
3455	13371	23177	0.94	0.0E+00	AA628677.1	EST_HUMAN	ab51f12.r1 Strategene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844367 5'
3458	13374	23180	1.11	0.0E+00	4508028	NT	Homo sapiens zinc finger protein 45 (a Kruppel-associated box (KRAB) domain polypeptide) (ZNF45) mRNA
3461	13377	23182	2.23	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3461	13377	23183	2.23	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3463	13379	23185	1.43	0.0E+00	4828795	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA
3470	13386	23191	0.92	0.0E+00	AI384007.1	EST_HUMAN	te35g12.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:000498
3473	13389	23194	0.96	0.0E+00	M10976.1	NT	O00498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN
3485	13412	23217	0.82	0.0E+00	4508884	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
3497	13414	23225	1.3	0.0E+00	AF078868.1	NT	Homo sapiens semenogelin II (SEMG2) mRNA
3505	13422	23225	1.39	0.0E+00	AL133204.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3507	13423	23226	0.96	0.0E+00	AB040809.1	NT	Novel human gene mapping to chromosome X
3527	13443		0.98	0.0E+00	A1081907.1	EST_HUMAN	Homo sapiens mRNA for KIAA1476 protein, partial cds
3529	13445	23242	1.26	0.0E+00	6325463	NT	ox77c11.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1662356 3' similar to WP:T19B4.4
3533	13449		4.53	0.0E+00	AW852217.1	EST_HUMAN	CE13742
3540	13456		0.95	0.0E+00	AF118846.1	NT	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3541	13457	23250	7.43	0.0E+00	BF676393.1	EST_HUMAN	QV0-C10225-230300-169-e01 CT0225 Homo sapiens cDNA
3564	13478		1.1	0.0E+00	4828967	NT	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3566	13480	23269	0.98	0.0E+00	AW664693.1	EST_HUMAN	602084583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248596 5'
3566	13480	23270	0.98	0.0E+00	AW664693.1	EST_HUMAN	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3569	13483	23274	1.13	0.0E+00	4828763	NT	hi84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3571	13485	23277	0.98	0.0E+00	7662319	NT	hi84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3578	13492	23282	0.79	0.0E+00	4557762	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3578	13492	23283	0.79	0.0E+00	4557762	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3596	13510	23297	1.51	0.0E+00	D87327.1	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3600	13514		28.67	0.0E+00	7669491	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
3616	13530	23316	4.26	0.0E+00	AB028542.1	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
							Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
							Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3619	13533	23318	3.26	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3619	13533	23319	3.26	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3623	13537	23323	1.5	0.0E+00	AA852743.1	EST_HUMAN	NHTBCae15g09f1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g09
3623	13537	23324	1.5	0.0E+00	AA852743.1	EST_HUMAN	NHTBCae15g09f1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g09
3626	13540	23326	2.2	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3626	13540	23327	2.2	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3630	13544	23331	1.79	0.0E+00	5729928	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3632	13546	23333	1.25	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
3645	13559	23344	3.53	0.0E+00	AW298134.1	EST_HUMAN	UIH-BW0-ajs-e-12-0-UI.s1 NCI_OGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3645	13559	23345	3.53	0.0E+00	AW298134.1	EST_HUMAN	UIH-BW0-ajs-e-12-0-UI.s1 NCI_OGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3668	13582	23369	0.99	0.0E+00	AB004630.1	NT	Human gene for Type XIX collagen a1 chain, exon 6
3669	13583	23370	1.03	0.0E+00	AA463659.1	EST_HUMAN	aa06g01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:812496 5' similar to
3677	13591	23377	3.35	0.0E+00	7657468	NT	SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIB4. [1];
3687	13600	23387	0.91	0.0E+00	AB037835.1	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3699	13613	23397	3.88	0.0E+00	7662183	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3701	13615	23399	7.88	0.0E+00	4506718	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3705	13618	23401	1.02	0.0E+00	7657065	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3705	13618	23402	1.02	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3746	13659	23441	1.13	0.0E+00	AF145712.1	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3747	13660		1.01	0.0E+00	AF195658.1	NT	Homo sapiens soluble neuropilin-1 mRNA, complete cds
3748	13661	23442	2.3	0.0E+00	AF179733.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3751	13664	23446	1.69	0.0E+00	7657468	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3751	13664	23447	1.69	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3752	13665	23448	1.45	0.0E+00	AF020091.1	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3756	13669	23453	1.1	0.0E+00	10181139	NT	Homo sapiens smooth muscle myosin heavy chain SM1 mRNA, alternatively spliced, partial cds
3758	13671	23455	1.1	0.0E+00	AI377699.1	EST_HUMAN	Mus musculus junctophilin 1 (Jp1-pending), mRNA
3759	13672		1.7	0.0E+00	AF152496.1	NT	te62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3760	13673	23456	4.46	0.0E+00	4758199	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3763	13676	23458	11.67	0.0E+00	S78885.1	NT	Homo sapiens desmoplakin (DPI, DPL) (DSP) mRNA
3764	13677	23459	2	0.0E+00	7710148	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, complete cds
							Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA

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Single Exon Probes Expressed In Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3765	13678	23460	2.39	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3768	13681	23462	1.31	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3768	13681	23463	1.31	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3769	13682	23464	1.97	0.0E+00	4504534	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1D (HTR1D) mRNA
3773	13685	23467	1.61	0.0E+00	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3775	13687	23470	1.12	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3780	13692	23478	5.67	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3780	13692	23479	5.67	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3782	13694	23482	3.93	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3784	13696	23483	1.63	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3787	13699	23486	0.99	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3788	13700	23487	1.87	0.0E+00	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
3790	13702	23489	0.82	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3799	13711	23498	2.54	0.0E+00	AI864727.1	EST_HUMAN	wk01f01.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TR:O43340
3802	13714	23502	6.08	0.0E+00	4506742	NT	O43340 R28830_2, contains element PTR7 repetitive element ;
3807	13719	23508	1.41	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3813	13725	23515	1	0.0E+00	6005887	NT	DKFZp434N0413_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0413 5'
3813	13725	23516	1	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3815	13727	23518	2.45	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3816	13728		1.8	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA
3820	13732	23521	0.87	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
3830	13742	23534	1.27	0.0E+00	4506758	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
3833	13745	23537	1.62	0.0E+00	4585642	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
3840	13751	23544	1.75	0.0E+00	BF355295.1	EST_HUMAN	Homo sapiens zinc finger protein (KIAA0412) mRNA
3842	13753	23546	1.4	0.0E+00	AW888221.1	EST_HUMAN	RC3-HT0860-170800-011-a12 HT0860 Homo sapiens cDNA
3842	13753	23547	1.4	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3848	13759	23552	1.78	0.0E+00	AF129533.1	NT	Matrix remodeling associated gene 5
3853	13764	23557	3.2	0.0E+00	BE378602.1	EST_HUMAN	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds
3854	13765	23558	1.27	0.0E+00	BE313146.1	EST_HUMAN	601236966F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608800 5'
3860	13771	23563	0.97	0.0E+00	AW580740.1	EST_HUMAN	601163727F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509743 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3893	13803	23587	4.6	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3893	13803	23588	4.6	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3903	13813		3.93	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
3905	13815		5.44	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
3912	13822	23603	1.53	0.0E+00	AL118494.1	NT	Novel human gene mapping to chromosome 20
3916	13825	23605	2.89	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3924	13833	23613	1.46	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
3935	13844		25.75	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
3939	13847	23623	1.18	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3940	13848	23624	2.05	0.0E+00	U09366.1	NT	Human zinc finger protein ZNF133
3960	13867	23645	6.24	0.0E+00	AB015610.1	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
3968	13875		3.79	0.0E+00	AJ238617.1	NT	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (RNA48 gene)
3976	13883	23658	3.28	0.0E+00	AJ272726.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3976	13883	23659	3.28	0.0E+00	AJ272726.1	NT	Homo sapiens mRNA for rapa-2 (rapa gene)
3981	13888	23663	5.63	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
3981	13888	23664	5.63	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
3993	13900	23677	0.81	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase (GART) mRNA
4000	13906	23682	4.89	0.0E+00	4895306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4001	13907	23683	1.94	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4003	13909	23684	1.28	0.0E+00	4758807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4004	13910	23685	6.1	0.0E+00	11419297	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4005	13911	23686	1.58	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4013	13919	23695	2.7	0.0E+00	AF165527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4017	15071	23697	0.95	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
4022	11031	20872	0.8	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4022	11031	20873	0.8	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4028	13931	23707	0.99	0.0E+00	5901905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4029	13932	23708	1.16	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4029	13932	23709	1.16	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4032	13935	23711	1.05	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4032	13935	23712	1.05	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4041	13944	23722	4.59	0.0E+00	A1982597.1	EST_HUMAN	wu04d04.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2515975 3'
4041	13944	23723	4.59	0.0E+00	A1982597.1	EST_HUMAN	wu04d04.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2515975 3'

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4044	13946	23725	0.88	0.0E+00	BE184856.1	EST_HUMAN	MIR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4044	13946	23726	0.88	0.0E+00	BE184856.1	EST_HUMAN	MIR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4048	13950		1.99	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967690 5'
4055	13957	23733	0.97	0.0E+00	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
4056	13958	23734	1.98	0.0E+00	5729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4064	13966		6.19	0.0E+00	AW675599.1	EST_HUMAN	ba51f04.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900095 3' similar to SW:TH12_BOVIN Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4069	13971	23748	1.52	0.0E+00	AW408788.1	EST_HUMAN	UI-HF-BM0-adv-c-02-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5'
4071	13973	23751	1.33	0.0E+00	8922466	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4071	13973	23752	1.33	0.0E+00	8922466	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4081	13983		1.96	0.0E+00	5174632	NT	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
4098	13998	23775	7.82	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4098	13998	23776	7.92	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4113	14013	23791	3.79	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4113	14013	23792	3.79	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4126	14026	23801	0.87	0.0E+00	4506882	NT	Homo sapiens semenogelin I (SEMG1) mRNA
4130	14030	23803	8.21	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4130	14030	23804	8.21	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4137	14037		0.88	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4163	14063	23837	1.13	0.0E+00	AJ003145.1	NT	Homo sapiens mRNA for olfactory receptor protein, pseudogene
4176	14076	23851	7.84	0.0E+00	J02610.1	NT	Human apolipoprotein B-100 mRNA, complete cds
4190	14090	23868	0.95	0.0E+00	AW936689.1	EST_HUMAN	FM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA
4196	14096	23876	0.88	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4196	14096	23877	0.88	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4198	14098	23879	5.73	0.0E+00	AF174590.1	NT	Homo sapiens F-box protein Fbl4 (FBL4) mRNA, partial cds
4206	14105		1.92	0.0E+00	AJ189844.1	EST_HUMAN	qd23f06.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20.b2 MER20 repetitive element ;
4210	14108		4.09	0.0E+00	U14520.1	NT	Human CSFA3 (Cbr3) gene, partial cds
4224	14122	23897	0.98	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
4230	14128	23904	0.87	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4230	14128	23905	0.87	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4237	14135	23911	1.17	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4237	14135	23912	1.17	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4245	14144	23917	10.2	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4263	14102	AF153047.2	1.15	0.0E+00	NT	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4268	14107	U03901.1	1.59	0.0E+00	NT	NT	Human Ig light chain VL1 region germline (hum1v1c2c) gene, partial cds
							Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4274	14173	23950	5.17	0.0E+00	L14561.1	NT	H. sapiens H2B/h gene
4278	14177	23955	2.78	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4278	14177	23956	2.78	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4284	14183	23962	1.58	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4284	14183	23963	1.58	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4289	14187	23969	8.95	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4289	14187	23970	8.95	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4299	14197	23982	10.81	0.0E+00	4888126	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4302	14200	23984	0.98	0.0E+00	AB037781.1	NT	Homo sapiens mRNA for KIAA1360 protein, partial cds
4333	14230	24012	1.1	0.0E+00	7019456	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4341	14238		5.85	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4346	14243	24025	8.1	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4346	14243	24026	8.1	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4368	14204		1.92	0.0E+00	AF200629.1	NT	Homo sapiens HPS1 gene, intron 5
4401	14296	24080	40.23	0.0E+00	AW084964.1	EST_HUMAN	xc68e08.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW-AHNK_HUMAN
4403	15073		1.91	0.0E+00	8051619	NT	Q09666 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNK ; transcript variant 2a, mRNA
							Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
							Homo sapiens vascular endothelial cell growth factor 165 receptor/neuropilin (VEGF165) mRNA, complete cds
4405	14299	24083	1.38	0.0E+00	AF016050.1	NT	Homo sapiens chromosome 21 segment HS21C007
4408	14302		7.5	0.0E+00	AL163207.2	NT	PM1-HT0305-101199-002-403 HT0305 Homo sapiens cDNA
4410	14304	24087	1.29	0.0E+00	AW381570.1	EST_HUMAN	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4416	14310	24094	1.83	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4416	14310	24095	1.83	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4418	14312	24097	3.91	0.0E+00	4758467	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
4419	14313	24098	2.3	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
4424	14318	24104	1.47	0.0E+00	Z66526.1	NT	H. sapiens pancreatic polypeptide receptor PP1 gene
4429	14324	24111	1.12	0.0E+00	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon

Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4430	14325	24112	1.95	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4430	14325	24113	1.95	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4439	15074	24123	3.08	0.0E+00	6005973	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4444	14338	24128	5.37	0.0E+00	AF208161.1	NT	Homo sapiens syncytin precursor, mRNA, complete cds
4449	14343	24135	1.92	0.0E+00	AF152337.1	NT	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4452	14346	24139	1.36	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4462	14356	24147	15.15	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4473	14367	24156	1.47	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4477	14371	24161	1.58	0.0E+00	4502556	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4481	14375		2.78	0.0E+00	L35485.1	NT	Homo sapiens iduronate sulphate (IDS) gene, complete cds
4483	14377	24163	9.78	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4483	14377	24164	9.78	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4498	14392	24177	2.04	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4500	14394	24179	8.67	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4500	14394	24180	8.67	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4511	14404		0.84	0.0E+00	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4523	14416		1.5	0.0E+00	AA174072.1	EST_HUMAN	zpi8g08.s1 Stratagene fetal retina g37202 Homo sapiens cDNA clone IMAGE:609854 3'
4526	14419		1.55	0.0E+00	7657410	NT	Homo sapiens odz (odd Oz/ten-m, Drosophila) homolog 1 (ODZ1), mRNA
4528	14421		1.22	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4529	14422	24205	1.71	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4530	14423	24206	4.37	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4531	14424		1.89	0.0E+00	AB037521.1	NT	Homo sapiens gene for natriuretic protein, partial cds
4541	14434	24216	1.91	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4541	14434	24217	1.91	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4542	14435	24218	1.3	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4542	14435	24219	1.3	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4543	14436	24220	1.18	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4554	14013	23791	7.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4554	14013	23792	7.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4560	14452	24238	21.96	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4566	14458	24246	2.32	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA
4574	14465		2.01	0.0E+00	AF086641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4580	14470	24257	2.65	0.0E+00	AF086641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4580	14470	24258	2.65	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4581	14471	24259	2.55	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4585	14474	24262	1.82	0.0E+00	6453812	NT	Human displacement protein (CCAAT) mRNA
4585	14474	24263	1.82	0.0E+00	6453812	NT	Human displacement protein (CCAAT) mRNA
4586	10108	19929	1.03	0.0E+00	56945.1	EST_HUMAN	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4586	10108	19930	1.03	0.0E+00	56945.1	EST_HUMAN	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4587	14475		0.99	0.0E+00	BE278730.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4593	14481	24267	1.11	0.0E+00	BE390050.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4614	14502	24290	37.36	0.0E+00	M80902.1	NT	601158935F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3505521 5'
4617	14505	24293	3.14	0.0E+00	M69197.1	NT	601286246F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3607067 5'
4617	14505	24294	3.14	0.0E+00	M69197.1	NT	Human AHNK nucleoprotein mRNA, 5' end
4620	14508	24297	1.12	0.0E+00	AF184110.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4621	14509	24298	1.34	0.0E+00	7662181	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4636	14524		1.54	0.0E+00	X58467.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4644	14532	24319	0.95	0.0E+00	7304922	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4644	14532	24320	0.95	0.0E+00	7304922	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D6
4652	14538	24327	1.09	0.0E+00	AF026801.1	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4655	14541	24330	0.92	0.0E+00	7019320	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4655	14541	24331	0.92	0.0E+00	7019320	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4676	14562	24355	1.78	0.0E+00	AW444337.1	EST_HUMAN	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-26
4681	14567	24363	1.11	0.0E+00	AF303134.1	NT	Homo sapiens proteinx0008 (AD013), mRNA
4686	14572		1.8	0.0E+00	AF083242.1	NT	Homo sapiens proteinx0008 (AD013), mRNA
4697	14583		2.04	0.0E+00	M65189.1	NT	Homo sapiens proteinx0008 (AD013), mRNA
4735	14620		2.83	0.0E+00	AF240786.1	NT	Homo sapiens proteinx0008 (AD013), mRNA
4737	14622	24408	2.79	0.0E+00	X87205.1	NT	Human connexin 43 processed pseudogene
4739	14624	24410	1.3	0.0E+00	AF084479.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4740	14625	24411	1.47	0.0E+00	AF097416.1	NT	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa
4741	14626	24412	3.51	0.0E+00	4503766	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSOR9) mRNA, complete cds
4743	14628	24414	61.82	0.0E+00	4885048	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
							Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
							Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4744	14629	24415	1.4	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4746	14631	24417	0.97	0.0E+00	8922180	NT	Homo sapiens hypothetical protein DKFp762E1312 (DKFp762E1312), mRNA
4748	14633	24419	0.8	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4752	14637	24424	7.78	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4756	14641	24428	0.95	0.0E+00	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4757	14642	24429	1.66	0.0E+00	M94081.1	NT	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-J61 segments; and Tor-C-alpha gene, exons 1-4
4757	14642	24430	1.66	0.0E+00	M94081.1	NT	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-J61 segments; and Tor-C-alpha gene, exons 1-4
4759	14644	24432	1.69	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4759	14644	24433	1.69	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4762	14647	24436	1.08	0.0E+00	M55582.1	NT	Human collagenase type IV (CLG4) gene, exon 2
4763	14648	24437	3.22	0.0E+00	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4776	14680	24447	0.99	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 28kD (TAF21) mRNA
4786	14671	24458	0.82	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4788	14673	24460	1.44	0.0E+00	X92841.1	NT	H. sapiens MICA gene
4791	14676	24463	1.97	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4792	14677	24464	1.18	0.0E+00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
4794	14679	24466	2.26	0.0E+00	6677648	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
4795	14680	24467	1.05	0.0E+00	5174560	NT	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MGEA6), mRNA
4797	14682	24469	8.64	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4799	14684	24471	1.2	0.0E+00	Y16723.1	NT	Homo sapiens gene encoding filensin, exon 8
4800	14685	24472	1.61	0.0E+00	7705546	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4801	14686	24473	1.33	0.0E+00	AJ010442.1	NT	Homo sapiens mRNA for immunoglobulin kappa light chain, anti-RhD, therad 7
4806	14690	24477	24.91	0.0E+00	AF055066.1	NT	Homo sapiens MHC class 1 region
4808	14692	24479	2.43	0.0E+00	4505508	NT	Homo sapiens opicid receptor, delta 1 (OPRD1) mRNA
4809	14693	24480	2.46	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
4812	14013	23791	5.48	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4812	14013	23792	5.48	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4814	14697	24484	0.86	0.0E+00	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
4824	14706	24490	12.01	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4827	14709	24493	0.95	0.0E+00	D63662.1	NT	Homo sapiens COL4A6 gene for a6(V) collagen, exon 44 and partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4831	14713	24496	1.52	0.0E+00	4503684	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPS) mRNA
4837	14319	24105	1.06	0.0E+00	4508952	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminic: alpha-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4845	14726	24508	1.31	0.0E+00	D15050.1	NT	Human mRNA for transcription factor AREB6, complete cds
4845	14726	24509	1.31	0.0E+00	D15050.1	NT	Human mRNA for transcription factor AREB6, complete cds
4854	14734	24515	0.86	0.0E+00	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4871	14751	24530	1.34	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4879	14759	24536	1.45	0.0E+00	AW452728.1	EST_HUMAN	U1-H-B13-alf-02-0-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068691 3'
4885	14766	24542	1.2	0.0E+00	8922926	NT	Homo sapiens hypothetical protein FLJ11190 (FLJ11190), mRNA
4886	14766	24490	7.99	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4888	14768	24544	2.81	0.0E+00	AF058332.1	NT	Homo sapiens titin (TTN) gene, alternative splice products, partial cds
4888	14768	24545	2.81	0.0E+00	AF058332.1	NT	Homo sapiens titin (TTN) gene, alternative splice products, partial cds
4894	14774	24552	2.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4897	14777		4.34	0.0E+00	U14987.1	NT	Human ribosomal protein L21 mRNA, complete cds
4910	14789		2.58	0.0E+00	BE408863.1	EST_HUMAN	601303729F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
4915	14794	24569	5.37	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4925	14804	24574	0.99	0.0E+00	AB028898.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
4939	14817	24584	1.66	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4939	14817	24585	1.66	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4953	14830	24596	1.06	0.0E+00	U82671.2	NT	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltactin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>
4953	14830	24597	1.06	0.0E+00	U82671.2	NT	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltactin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>
4957	14013	23791	5.81	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4957	14013	23792	5.81	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4959	14834	24602	3.51	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4960	14835	24603	7.76	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
4968	14843		1.17	0.0E+00	4758225	NT	Homo sapiens E2F transcription factor 2 (E2F2) mRNA
4978	14853	24619	1.35	0.0E+00	AF016705.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 3
4987	14862		1.33	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4990	14865		37.78	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
5000	14875	24639	2.29	0.0E+00	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
5001	14876	24640	3.02	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5003	14878	24642	4.23	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5005	14013	23791	2.89	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5005	14013	23792	2.89	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5018	14892	24660	2.43	0.0E+00	X82988.1	NT	Bacillus amyloquelactens sacB gene for levansucrase (EC 2.4.1.10)
5037	14909	24681	1.84	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5037	14909	24682	1.84	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5040	14912	24686	1.01	0.0E+00	5454163	NT	Homo sapiens cyclophilin (USA-CYP) mRNA
5054	14926	24698	1.22	0.0E+00	6677700	NT	Homo sapiens G-protein coupled receptor (RE2), mRNA
5055	14013	23791	11.22	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5055	14013	23792	11.22	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5056	14013	23791	14.9	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5056	14013	23792	14.9	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5055	14935	24708	1.33	0.0E+00	4557362	NT	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1) mRNA
5070	14940	24713	1.03	0.0E+00	M10905.1	NT	Human cellular fibronectin mRNA
5070	14940	24714	1.03	0.0E+00	M10905.1	NT	Human cellular fibronectin mRNA
5071	14941	24715	1.05	0.0E+00	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NP T3) gene, complete cds
5080	14950	24726	3.04	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5096	14013	23791	6.27	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5096	14013	23792	6.27	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5098	14967	24743	1.34	0.0E+00	35475.1	NT	Human olfactory receptor-like gene, complete cds
5098	14967	24744	1.34	0.0E+00	35475.1	NT	Human olfactory receptor-like gene, complete cds
5099	14013	23791	9.38	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5099	14013	23792	9.38	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5124	14992	24765	0.94	0.0E+00	AF196658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
5126	14993	24766	1.35	0.0E+00	5360213	NT	Homo sapiens glypican 3 (GPC3) mRNA
5130	14997	24768	0.8	0.0E+00	AE000327.1	NT	Escherichia coli K-12 MG1655 section 217 of 400 of the complete genome
5140	15007	24778	1.05	0.0E+00	4885474	NT	Homo sapiens melanoma antigen, family C, 1 (MAGEC1), mRNA
5159	15026	24793	0.96	0.0E+00	4885474	NT	Homo sapiens melanoma antigen, family C, 1 (MAGEC1), mRNA
5162	15028	24794	1.59	0.0E+00	4758697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5165	15031	24797	1.12	0.0E+00	AF245703.1	NT	Homo sapiens toll-like receptor 8 (TLR8) mRNA, complete cds
5165	15031	24798	1.12	0.0E+00	AF245703.1	NT	Homo sapiens toll-like receptor 8 (TLR8) mRNA, complete cds
5186	15050	24814	1.72	0.0E+00	AF008061.1	NT	Homo sapiens placental growth hormone isoform hGH-V3 (hGH-V) mRNA, complete cds
5187	14013	23791	10.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5187	14013	23792	10.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5189	15052	24816	6.75	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5193	15056		1.38	0.0E+00	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5195	15058	24822	3.97	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5195	15058	24823	3.97	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5196	15059	24824	0.96	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, flensin (BFSP1) mRNA
5208	15086		15.66	0.0E+00	AF093093.1	NT	Homo sapiens aconitase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5214	15137	24830	2.25	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5214	15137	24831	2.25	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5226	15150	24917	2.99	0.0E+00	9256579	NT	Homo sapiens protocadherin alpha 13 (PCDH13), mRNA
5234	15168	24926	3.82	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0076-310800-013-b03 GN0076 Homo sapiens cDNA
5238	15162	24930	3.12	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5238	15162	24931	3.12	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5245	15168	24940	1.92	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5245	15168	24941	1.92	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5307	15228	25032	5.9	0.0E+00	BE675498.1	EST_HUMAN	7f10c06.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3294250 3'
							h189a02.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3165194 3' similar to SW:Y054_HUMAN
5308	15229	25033	1.77	0.0E+00	BE220753.1	EST_HUMAN	P42694 HYPOTHETICAL PROTEIN KIAA0054. ;
5309	15230	25034	1.67	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5309	15230	25035	1.67	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5311	15232	25037	5.46	0.0E+00	M29908.1	NT	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
							ch68a09.y5 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1472162 5' similar to gb:M18512 IG
5313	15234	25038	1.81	0.0E+00	AI791363.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-J REGION (HUMAN);
5319	19442	25044	5.42	0.0E+00	11421038	NT	Homo sapiens Sp4 transcription factor (SP4), mRNA
5324	15244		2.91	0.0E+00	BF665962.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5327	15247	25052	1.92	0.0E+00	BE538857.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447689 5'
5333	15263	25075	1.31	0.0E+00	BE292784.1	EST_HUMAN	601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988310 5'
5337	15257	25080	1.8	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4214272 5'
5337	15257	25081	1.8	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4214272 5'
5348	15987	26122	1.71	0.0E+00	4557364	NT	Homo sapiens Bloom syndrome (BLM) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5352	15272	25101	5.24	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5352	15272	25102	5.24	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5362	15282	25114	1.45	0.0E+00	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5362	15282	25115	1.45	0.0E+00	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5374	15294	25141	1.67	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5386	15305	25158	3.26	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179988 5'
5386	15305	25159	3.26	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179988 5'
5389	15308	25161	2.35	0.0E+00	BF313139.1	EST_HUMAN	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126815 5'
5396	15315	25362	4.21	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5420	15341		2.43	0.0E+00	AW667916.1	EST_HUMAN	MR0-SN0037-030400-001-h07 SN0037 Homo sapiens cDNA
5431	15351	25405	3.05	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5431	15351	25406	3.05	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5444	15366	25420	1.31	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5444	15365	25421	1.31	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5451	15372	25429	5.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5451	15372	25430	5.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5455	15376	25435	2.9	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5455	15376	25436	2.9	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5470	15390	25453	6.69	0.0E+00	M85719.1	EST_HUMAN	EST02238 Fetal brain, Striatum (cat#936206) Homo sapiens cDNA clone HFBCM48
5474	15394	25459	3.67	0.0E+00	AW405472.1	EST_HUMAN	U1HF-BL0-adh-d-02-0-U1.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
5489	15408	25471	5.74	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5489	15408	25472	5.74	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5489	15408	25473	5.74	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5491	15410	25475	1.88	0.0E+00	U36261.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13
5531	15448	25515	3.26	0.0E+00	AA195905.1	EST_HUMAN	zp95b11.r1 Striatum muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb.X03740
5532	15449	25516	1.5	0.0E+00	AJ006345.1	NT	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
5532	15449	25517	1.5	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5537	15454	25524	2	0.0E+00	AJ207616.1	EST_HUMAN	Homo sapiens KVLQT1 gene
5548	15464	25534	3.98	0.0E+00	11416801	NT	HA2981 Human fetal liver cDNA library Homo sapiens cDNA
5555	15471	25542	6.76	0.0E+00	BE560082.1	EST_HUMAN	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5556	15472	25543	1.58	0.0E+00	10048478	NT	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
							Mus musculus aczonin (Acz), mRNA
5557	15473	25544	3.03	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNL1B1) gene, exon 13B and isoform beta-1B, complete cds

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5557	15473	25545	3.03	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5564	15480	25553	2.1	0.0E+00	BF338835.1	EST_HUMAN	602036272F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184321 5'
5566	15482	25555	2.93	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5574	15489	25566	1.74	0.0E+00	BF509905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
5596	15510	25588	2.47	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
5597	15511	25589	1.89	0.0E+00	BE828144.1	EST_HUMAN	RC5-ET0027-210600-022-G10 ET0027 Homo sapiens cDNA
5601	15515	25593	1.41	0.0E+00	BE958636.1	EST_HUMAN	601645287F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3830453 5'
5615	15530	25613	1.66	0.0E+00	BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
5615	15530	25614	1.66	0.0E+00	BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
5631	15645	25633	1.54	0.0E+00	W33069.1	EST_HUMAN	zc08h06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5631	15645	25634	1.54	0.0E+00	W33069.1	EST_HUMAN	zc08h06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5632	15546		2.16	0.0E+00	AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
5634	15548	25636	3.57	0.0E+00	BE280197.1	EST_HUMAN	601158515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505623 5'
5638	15551	25642	2.74	0.0E+00	BE889610.1	EST_HUMAN	601512630F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914238 5'
5649	15561	25654	1.63	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5649	15561	25655	1.63	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5660	19450	25668	10.66	0.0E+00	9789986	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
5663	15574	25671	1.29	0.0E+00	AA193506.1	EST_HUMAN	zr40h01.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5. ;
5663	15574	25672	1.29	0.0E+00	AA193506.1	EST_HUMAN	zr40h01.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5. ;
5680	15589	25690	13.03	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5680	15589	25691	13.03	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5730	15638	25742	1.41	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
5741	15649	25756	3.4	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-6 gene, complete cds
5755	15663	25770	4.14	0.0E+00	AA204740.1	EST_HUMAN	zq81d03.r1 Strategene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN. ;
5756	15664	25771	3.57	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
5756	15664	25772	3.57	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
5775	15682	25790	2.8	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350622 5'
5784	15690	25800	1.47	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
5795	15701	25811	1.38	0.0E+00	11435630	NT	Homo sapiens peptide transporter 3 (LOC51296), mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5826	15732		8.1	0.0E+00	AV650020.1	EST_HUMAN	AV650020 GLC Homo sapiens cDNA clone GLCCAD09 3'
5830	15736	25848	2.81	0.0E+00	AW575598.1	EST_HUMAN	UI-HF-BL0-acc-g-12-0-UJ1.s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058751 3'
5832	15738	25850	4.21	0.0E+00	H01255.1	EST_HUMAN	Y27503.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:148933 5'
5838	15744	25857	1.99	0.0E+00	X15377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
5843	15749	25862	4.25	0.0E+00	BE735989.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
5843	15749	25863	4.25	0.0E+00	BE735989.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
5847	15753	25869	11.57	0.0E+00	AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
5847	15753	25870	11.57	0.0E+00	AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
5854	15760	25878	1.56	0.0E+00	A1989483.1	EST_HUMAN	ws25c07.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2498220 3'
5859	15765	25882	4.81	0.0E+00	BE293153.1	EST_HUMAN	601106344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'
5859	15765	25883	4.81	0.0E+00	BE293153.1	EST_HUMAN	601106344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'
5901	15807	25931	1.36	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BL0-acc-h-02-0-UJ1.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
5901	15807	25932	1.36	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BL0-acc-h-02-0-UJ1.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
5921	15826	25951	1.69	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone GLCEHC06 5'
5930	15835	25958	2.24	0.0E+00	AF190860.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds
5936	15841	25964	3.45	0.0E+00	AW163640.1	EST_HUMAN	au96h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206 ;
5936	15841	25965	3.45	0.0E+00	AW163640.1	EST_HUMAN	au96h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206 ;
5951	15856	25976	4.79	0.0E+00	BE799873.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
5955	15860	25981	7.23	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
5955	15860	25982	7.23	0.0E+00	BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
5961	15866	25988	3.71	0.0E+00	L24493.1	NT	Human antigen CD27 gene, exons 1-2
5964	15869	25991	2.15	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
5964	15869	25992	2.15	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
5970	15875	25999	3.54	0.0E+00	60059933	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
5973	15877	26001	4.13	0.0E+00	A1638412.1	EST_HUMAN	tt31f11.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE
5974	15878	26002	1.79	0.0E+00	L32832.1	NT	P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR. ;
5980	15885	26007	3.58	0.0E+00	AA434584.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
5991	15896	26019	1.48	0.0E+00	BE925875.1	EST_HUMAN	zw52c03.r1 Soares fetal_fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773668 5'
6011	15916	26044	1.44	0.0E+00	AU125928.1	EST_HUMAN	QV3-BN0047-300800-278-c06 BN0047 Homo sapiens cDNA
6041	15944	26076	7.44	0.0E+00	BE169131.1	EST_HUMAN	AU125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
							PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6042	15945	26077	1.81	0.0E+00	BF085667.1	EST_HUMAN	IL5-GN0032-180900-145-d07 GN0032 Homo sapiens cDNA
6063	16046	26191	3.15	0.0E+00	AA190755.1	EST_HUMAN	zp88e03.r1 Stralagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627292 5'
6071	16054	26201	6.08	0.0E+00	AI940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6071	16054	26202	6.08	0.0E+00	AI940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6076	16059	26208	3.07	0.0E+00	11435626	NT	Homo sapiens CD6 antigen (CD6), mRNA
6094	15104	24867	1.98	0.0E+00	BE566381.1	EST_HUMAN	601339977F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682267 5'
6099	15109	24872	13.15	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
6099	15109	24873	13.15	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
6101	15995	26130	2.07	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95. ;
6101	15995	26131	2.07	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95. ;
6118	16012	26150	1.46	0.0E+00	BF088376.1	EST_HUMAN	CM1-HT0877-080900-397-g11 HT0877 Homo sapiens cDNA
6121	16015	26153	3.94	0.0E+00	AA195108.1	EST_HUMAN	zr34g03.r1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:665332 5'
6126	15973		10.28	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
6135	15982	26118	2.57	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6142	15990		2.32	0.0E+00	J03069.1	NT	Human MYCL2 gene, complete cds
6146	16019	26157	2.8	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6146	16019	26158	2.8	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6154	15112	24876	2.75	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
6168	15125	24842	5.63	0.0E+00	BE262941.1	EST_HUMAN	601148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
6169	15126	24843	2.32	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6169	15126	24844	2.32	0.0E+00	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6170	15127	24845	2.83	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6170	15127	24846	2.83	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6175	15132	24851	1.35	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6178	16084	26213	2.18	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6181	16087	26217	3.58	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
6190	16075	26224	5.61	0.0E+00	BF306986.1	EST_HUMAN	601888823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
6193	16078	26227	1.76	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
6225	16091	26241	1.34	0.0E+00	AW954806.1	EST_HUMAN	EST366876 MAGE resequences, MAGEC Homo sapiens cDNA
6226	16092	26242	1.41	0.0E+00	BE254103.1	EST_HUMAN	601113958F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354566 5'

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6237	16103	26253	5.9	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001556 5'
6253	16119		2.44	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y79AA1 Homo sapiens cDNA clone Y79AA1002365 5'
6280	16126	26279	1.31	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
6280	16126	26280	1.31	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
6273	15137	24830	1.97	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
6273	15137	24831	1.97	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
6286	16150	26305	3.63	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
6286	16150	26306	3.63	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
6302	16166	26323	25.51	0.0E+00	AI128344.1	EST_HUMAN	qc67a07.x1 Soares_placenta_8tc9weeks_2NbhP8tc9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
6302	16166	26324	25.51	0.0E+00	AI128344.1	EST_HUMAN	qc67a07.x1 Soares_placenta_8tc9weeks_2NbhP8tc9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR ; contains element HGR repetitive element ;
6304	16168	26326	18.73	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
6304	16168	26327	18.73	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
6306	16170		14.06	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4182839 5'
6308	16172	26329	5.1	0.0E+00	AA128453.1	EST_HUMAN	zn160f09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR:G806562 G806562 NEBULIN ;
6328	16191	26353	6.72	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
6328	16191	26354	6.72	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
6337	16200	26360	7.55	0.0E+00	X70172.1	NT	H.sapiens DNA for ZNBP2 pseudogene, exon 4
6339	16202	26362	11.09	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
6339	16202	26363	11.09	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
6347	16210	26372	1.43	0.0E+00	AW956503.1	EST_HUMAN	EST368573 MAGE resequences, MAGD Homo sapiens cDNA
6349	16212	26374	2.54	0.0E+00	AW950516.1	EST_HUMAN	EST362586 MAGE resequences, MAGA Homo sapiens cDNA
6389	16251	26411	1.67	0.0E+00	AW239326.1	EST_HUMAN	x639a05.y1 NCI_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578640 5' similar to TR:Q08050 Q08050 HNF3/FH TRANSCRIPTION FACTOR GENESIS ;
6400	16261		1.8	0.0E+00	AU117553.1	EST_HUMAN	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
6401	16262	26422	3.64	0.0E+00	11427135	NT	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
6411	16272	26434	54.65	0.0E+00	AA211663.1	EST_HUMAN	zn156f02.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562203 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
6482	16321	26486	4.25	0.0E+00	AI752591.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random